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ABSTRACT

North Carolina local public school boards have the statutory responsibility for operating public schools and for entering into contracts for design and construction of their schools. This document presents examples of plans for school buildings planned or constructed during the last few years, as of 1990, representing a wide range of educational philosophies and design solutions. Elementary, Middle, and High School buildings are included. Each offering provides the floor plan, photographs or line drawings of the school, and costs and contractor information. The report concludes with seven diagrams that represent some school planning ideas which have been suggested by actual school planning conditions frequently encountered by architects and school administrators. (GR)

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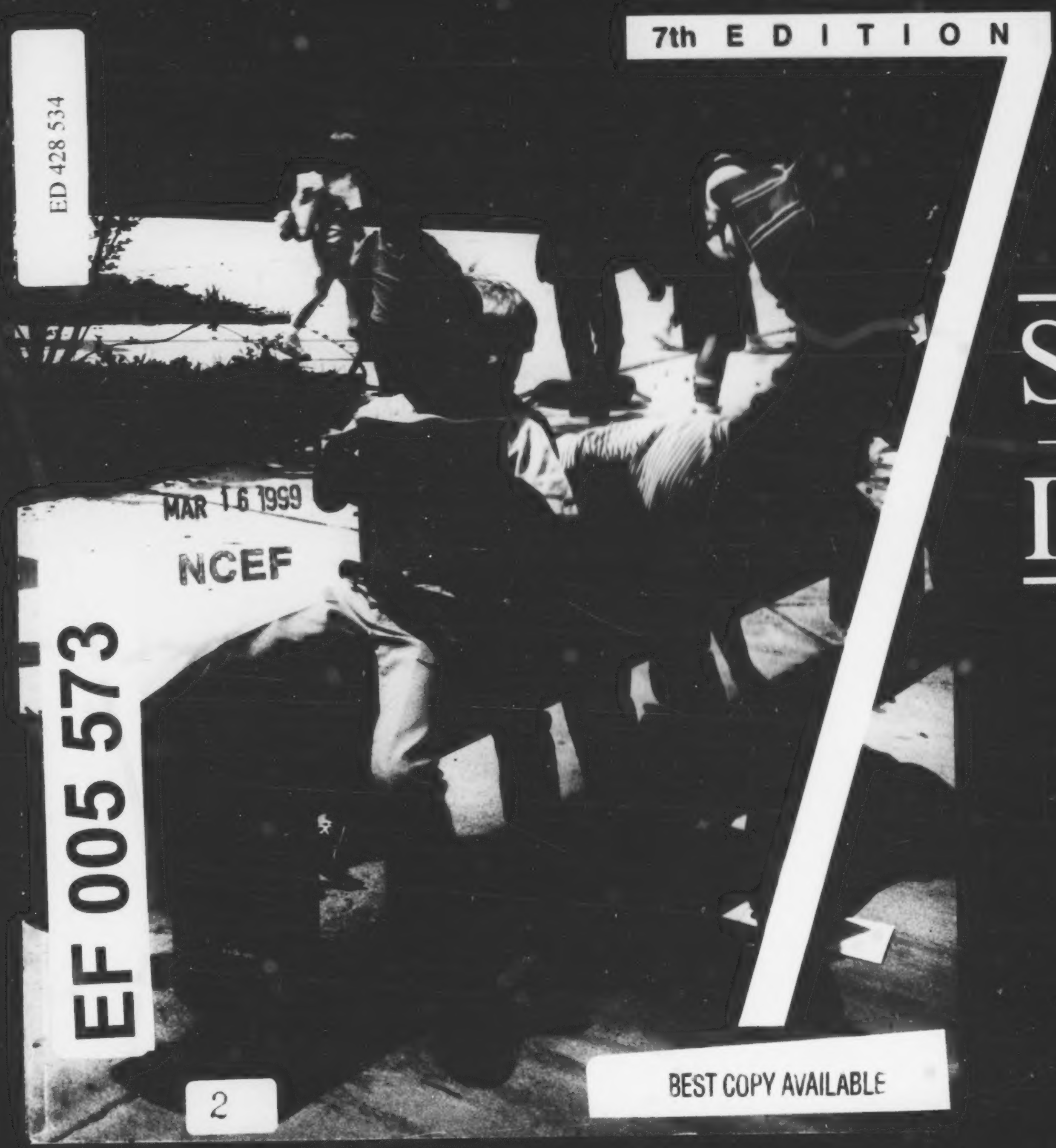

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SCHOOLS
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AUXILIARY SERVICES
NORTH CAROLINA DEPARTMENT OF PUBLIC INSTRUCTION
BOB ETHERIDGE, STATE SUPERINTENDENT

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Bob Etheridge
State Superintendent
North Carolina Department of Public Instruction

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December, 1990

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Vance Elementary School
Wake County

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SCHOOLS OF INTEREST

FOREWORD

In North Carolina, the statutory responsibility for operating public schools is assigned to local boards of education. A board of education also has the legal responsibility and authority for entering into contracts for the design and construction of public school buildings within its jurisdiction.

Charged with these responsibilities, conscientious school boards and superintendents keep abreast of recent developments and trends in public education, utilize extensive professional resources and plan continuously for the improvement of educational programs and facilities.

We commend this Seventh edition of *Schools of Interest* to you. Since the first edition in 1971, these publications have served to stimulate effective and imaginative school planning and to strengthen and improve building programs. The staff of the Department of Public Instruction is available for consultation and assistance in all aspects of the planning process.

Bob Etheridge

Bob Etheridge
State Superintendent

Charles H. Weaver

Charles H. Weaver
Assistant State Superintendent
Auxiliary Services

PREFACE

We are pleased to present examples of plans for buildings planned or constructed during the last few years. Selecting just a few schools for this publication from among the many notable designs constructed in North Carolina is difficult. There are many others which are worthy of presentation each time we prepare an issue of *Schools of Interest*. Almost all administrative districts have a new school or an addition to an older school which is of particular educational or architectural interest.

The schools presented here represent a wide range of educational philosophies and design solutions. These preferences and objectives blend with the capabilities of local design services and educational objectives to produce more variety than is ordinarily believed to be the case. Each community can express its own individuality and educational preferences. The public school planning process is remarkably responsive in this respect.

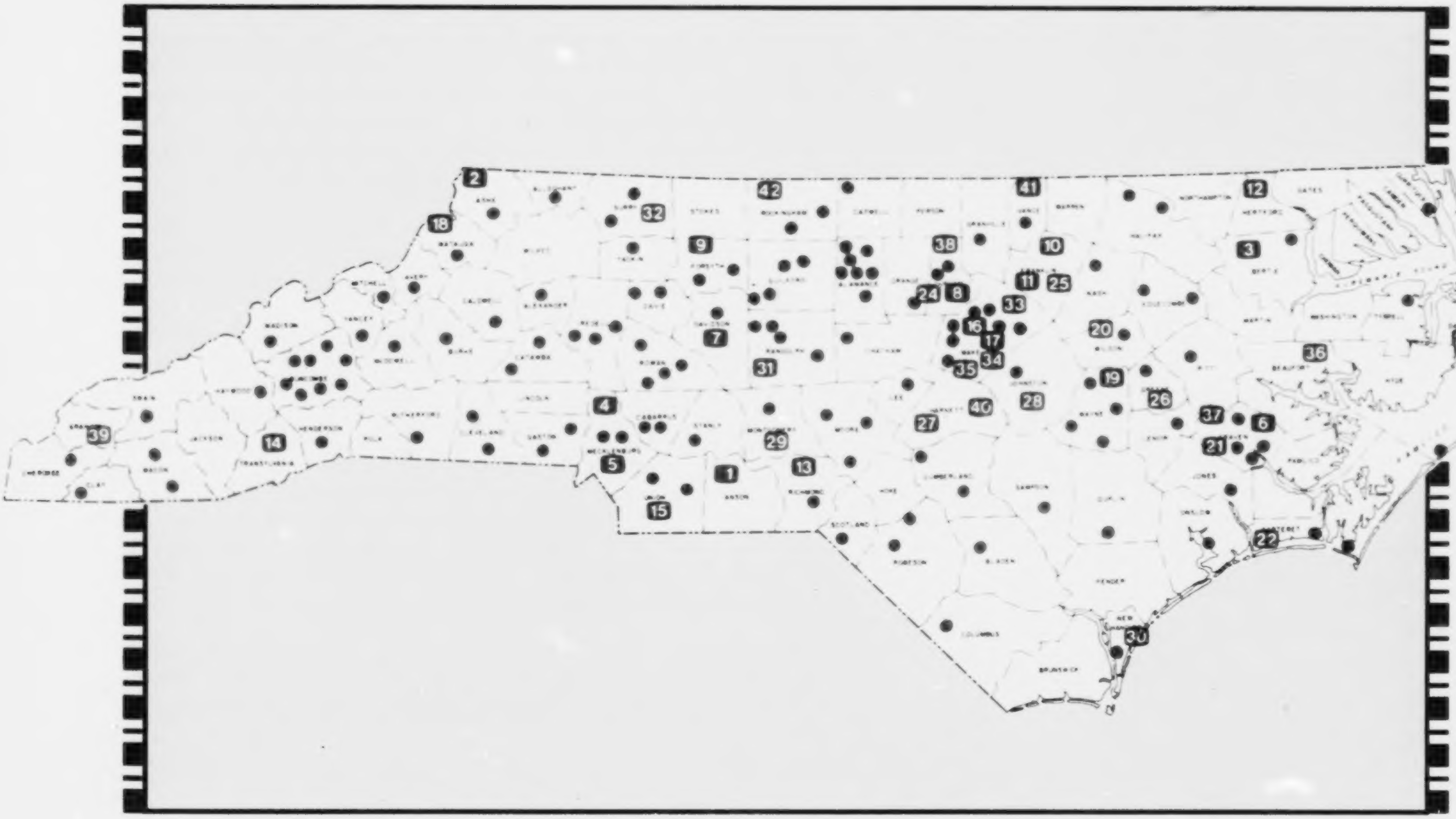
Building plan relationships are a matter of choice as well as tradition. Special program facilities are included or anticipated wherever local educational preferences dictate. Room sizes, arrangements and relationships can and do vary as much as the perceptions of educators, architects and school boards. The latest educational or architectural trends are frequently reflected in new school buildings. This variety of building design solutions is illustrative of the democratic complexity and responsiveness of public education.

The objective of this publication is to stimulate good planning. Staff members of School Planning are available to work with local superintendents and their boards of education toward this objective.

Karen S. Gulledge

Karen S. Gulledge
Chief Consultant
School Planning

PREVIOUS SCHOOLS OF INTEREST



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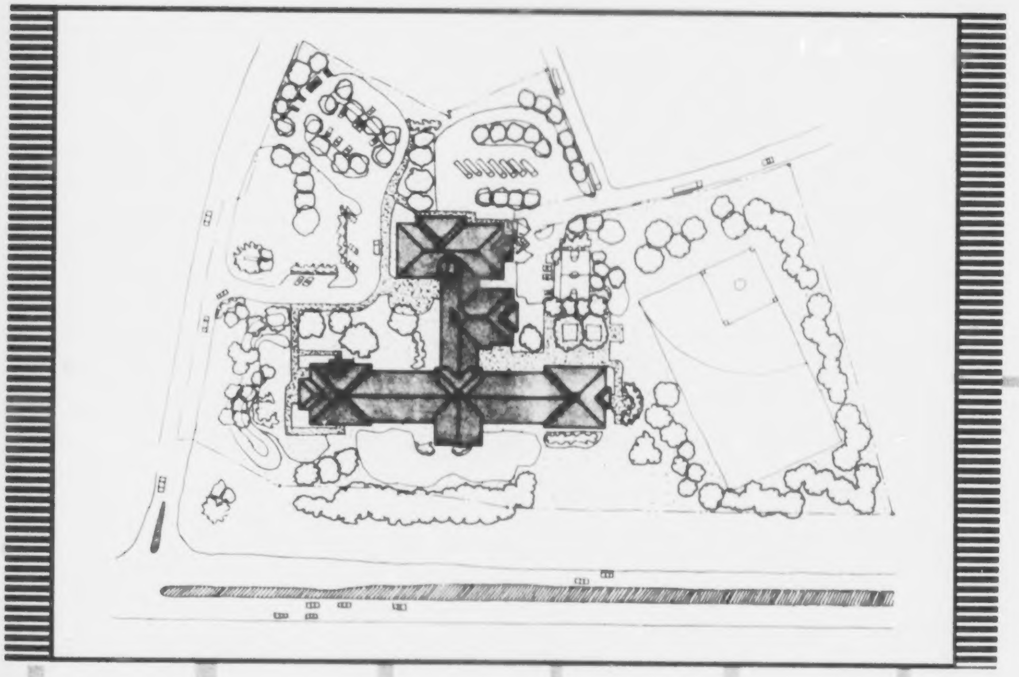

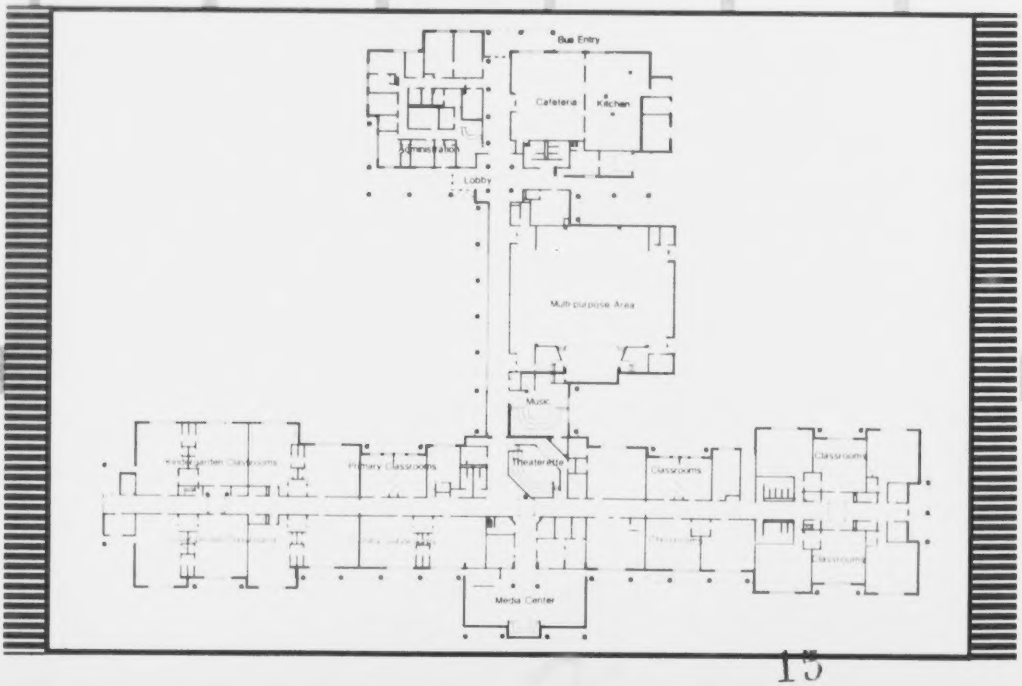
Bus Entry
Cafeteria
Kitchen
Administration
Lobby
Multi-purpose Area
Music
Kindergarten Classrooms
Primary Classrooms
Theaterette
Classrooms
Classrooms
Classrooms
Classrooms
Media Center

Lilesville Elementary

Administrative Unit	Anson County
Grade Organization	K-6
Approximate Capacity	400
Opening Date	December 1990
Architects	Boney Architects, Inc.
Landscape Architect	LandDesign Services
Structural Engineers	McKim & Creed
Mechanical Engineers	Cheatham & Associates
Electrical Engineers	Reece, Noland & McElrath
Square Footage	64,000
Total Cost	$4,733,307
Building Cost Per Square Foot	$73.95

Mountain View Elementary

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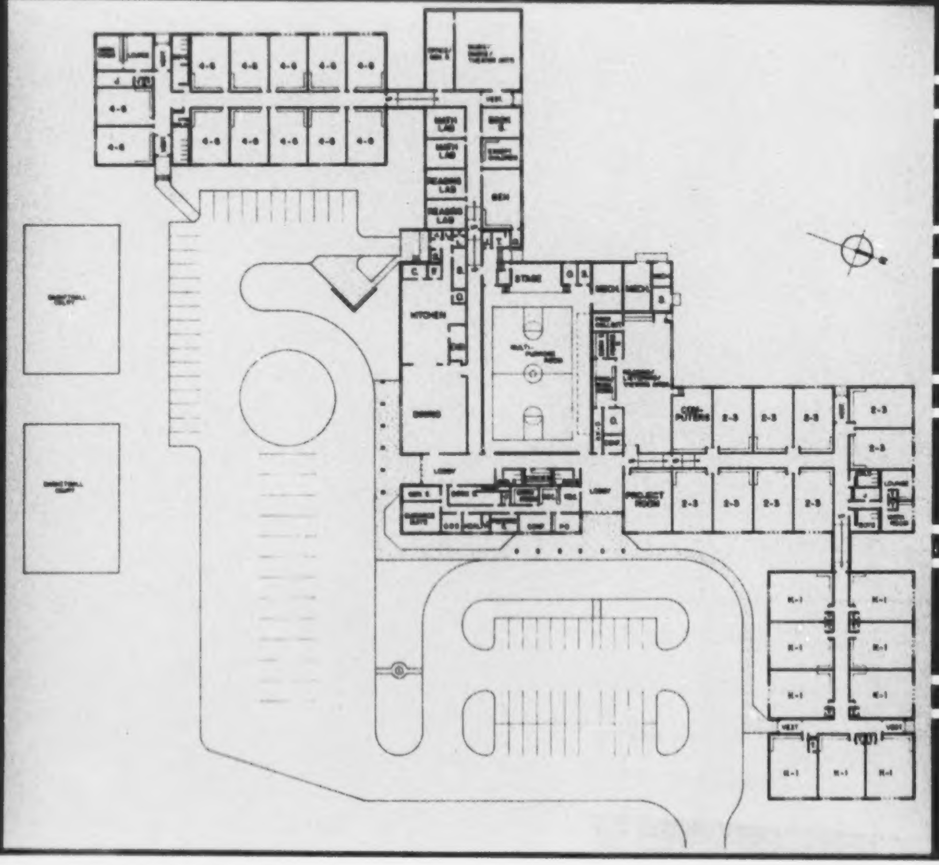
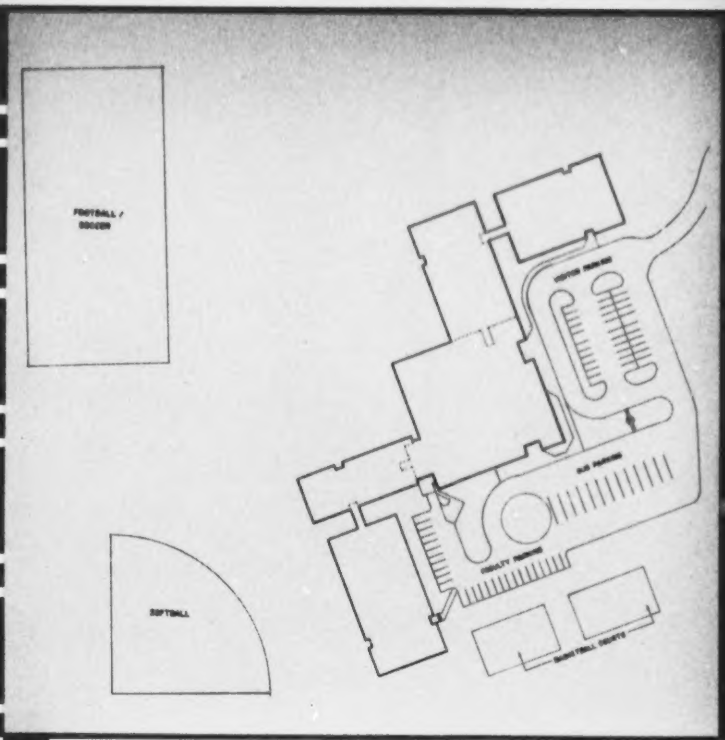
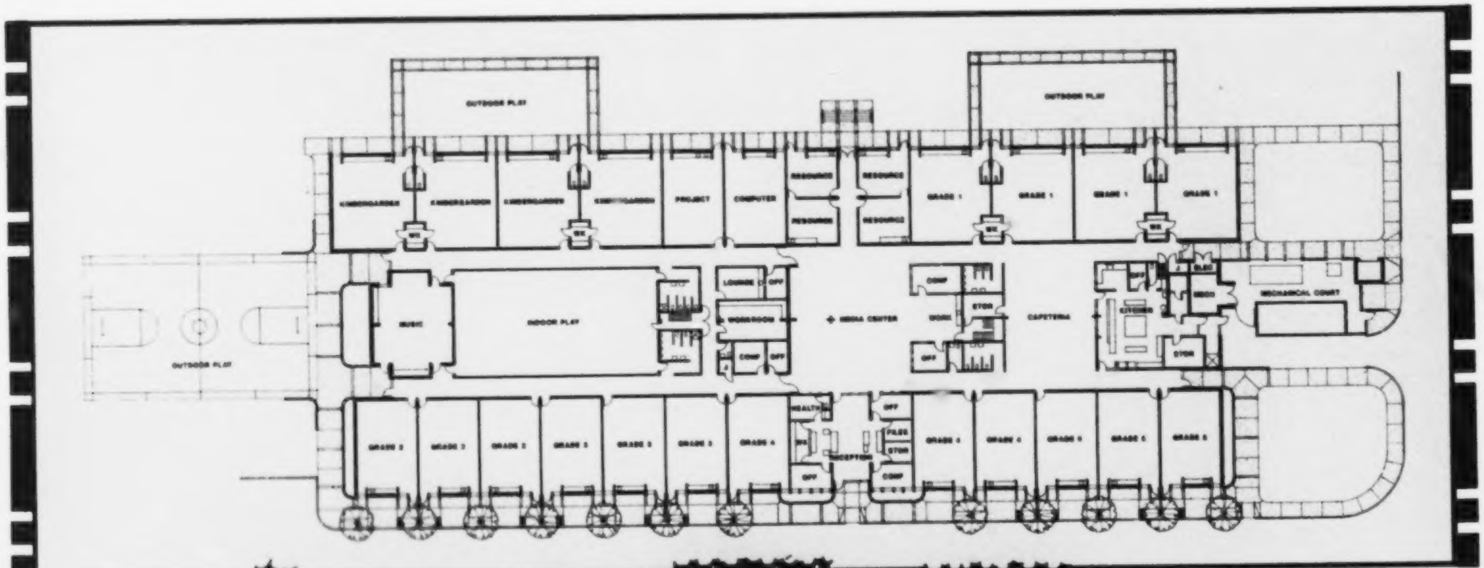


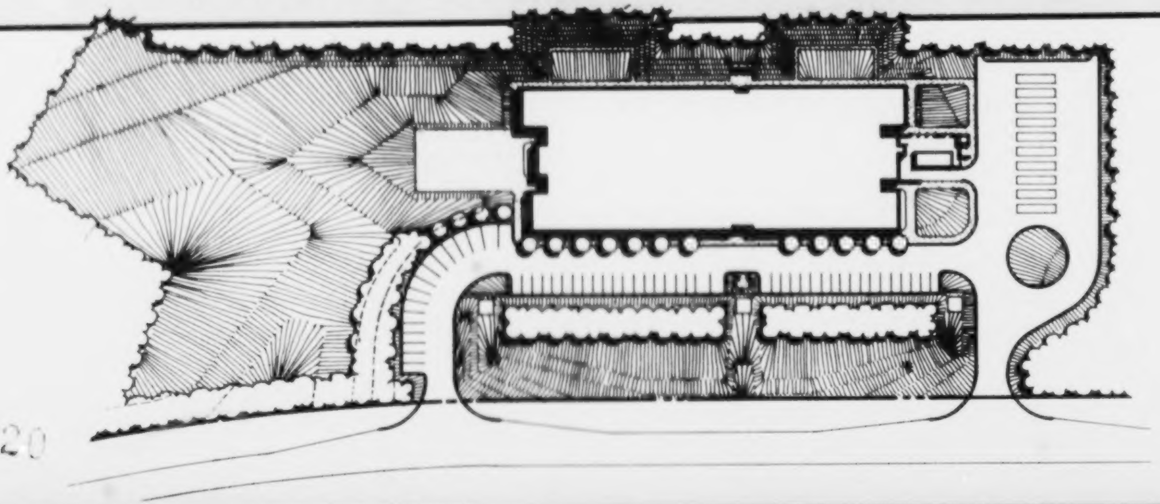


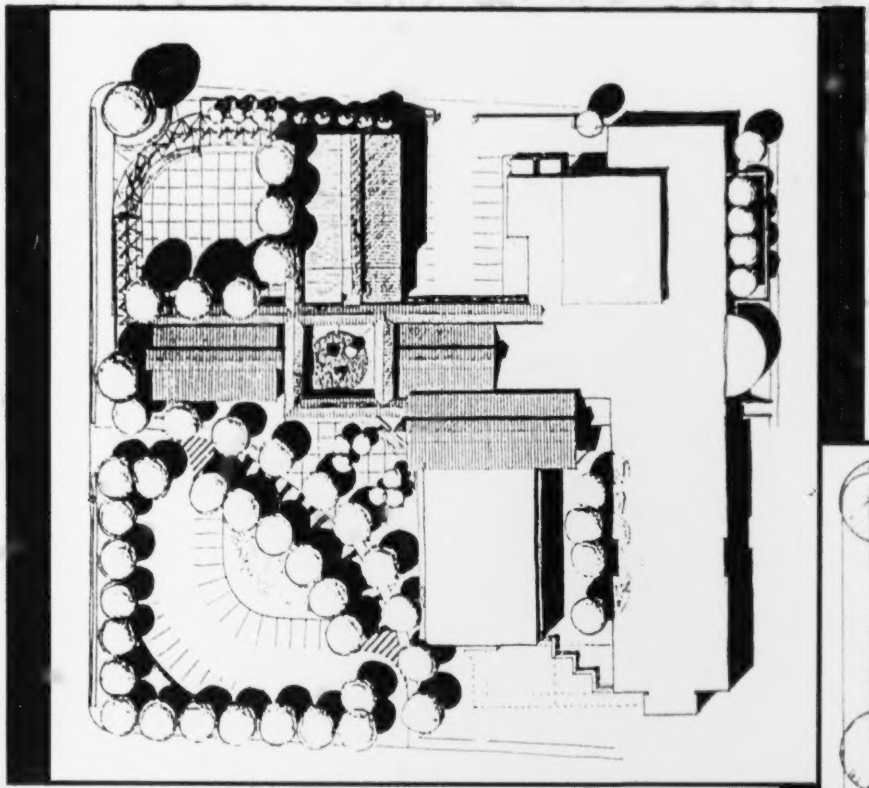
Administrative Unit	Ashe County
Grade Organization	K-6
Approximate Capacity	700
Opening Date	Fall 1990
Architects	Howell Associates
Structural Engineers	Robert T. Williams & Associates
Mechanical Engineers	Associated Engineering Consultants
Electrical Engineers	Associated Engineering Consultants
Square Footage	81,319
Total Cost	$5,096,595
Site Development Cost	$584,933
Building Cost Per Square Foot	$51.73

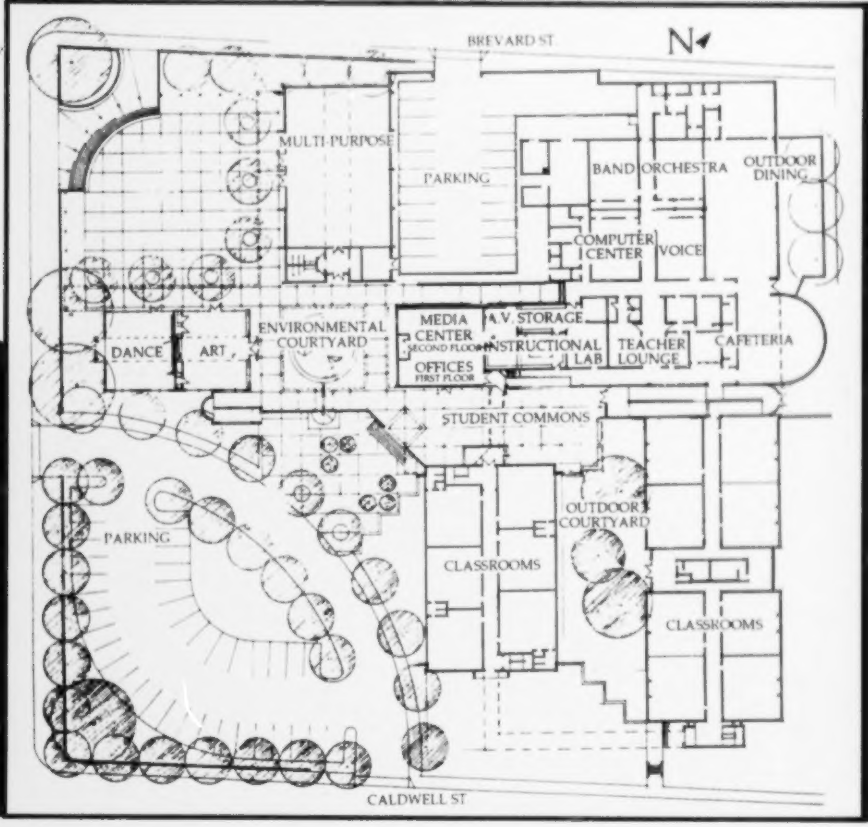
Windsor Elementary

Administrative Unit	Bertie County
Grade Organization	K-5
Approximate Capacity	450
Opening Date	September 1991
Architects	Alpha Design Group
Landscape Architect	In House
Structural Engineers	Dennis R. Hilton
Mechanical Engineers	Oscar P. Hay
Electrical Engineers	Oscar P. Hay
Square Footage	45,868
Total Cost	$2,447,674
Building Cost Per Square Foot	$53.36








BREVARD ST
N
MULTI-PURPOSE
PARKING
BAND
ORCHESTRA
OUTDOOR DINING
COMPUTER CENTER
VOICE
DANCE
ART
ENVIRONMENTAL COURTYARD
MEDIA CENTER
SECOND FLOOR
OFFICES
FIRST FLOOR
A.V. STORAGE
INSTRUCTIONAL LAB
TEACHER LOUNGE
CAFETERIA
STUDENT COMMONS
PARKING
CLASSROOMS
OUTDOOR COURTYARD
CLASSROOMS
CALDWELL ST

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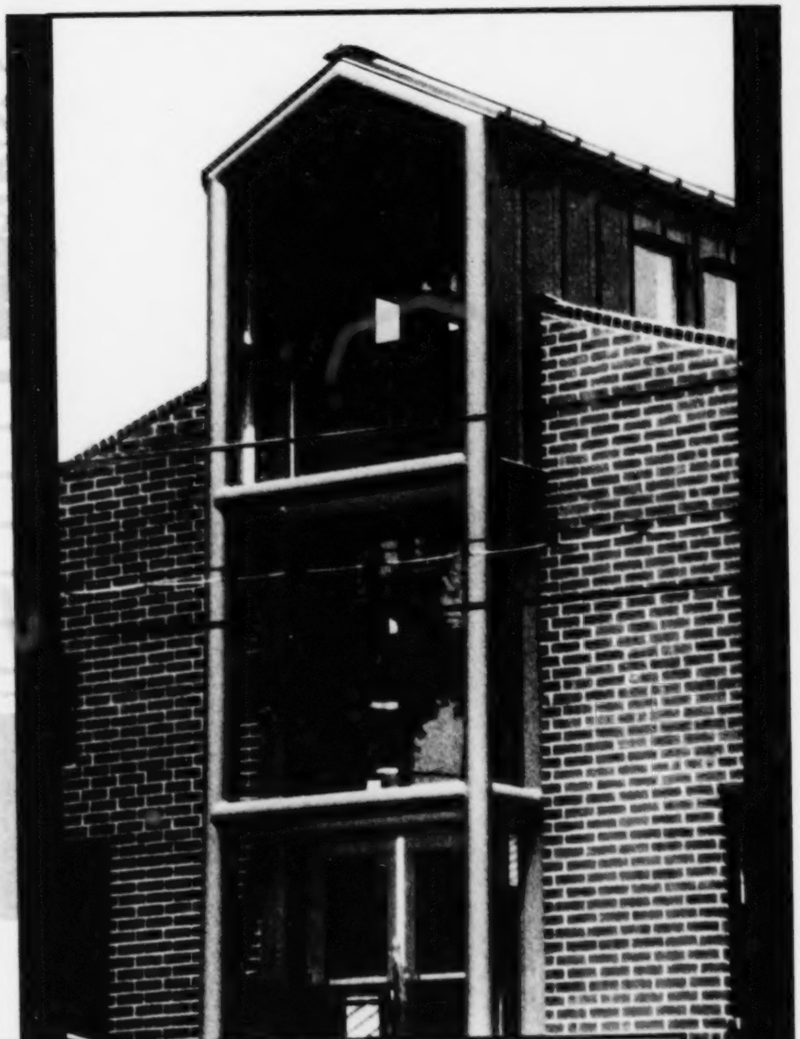
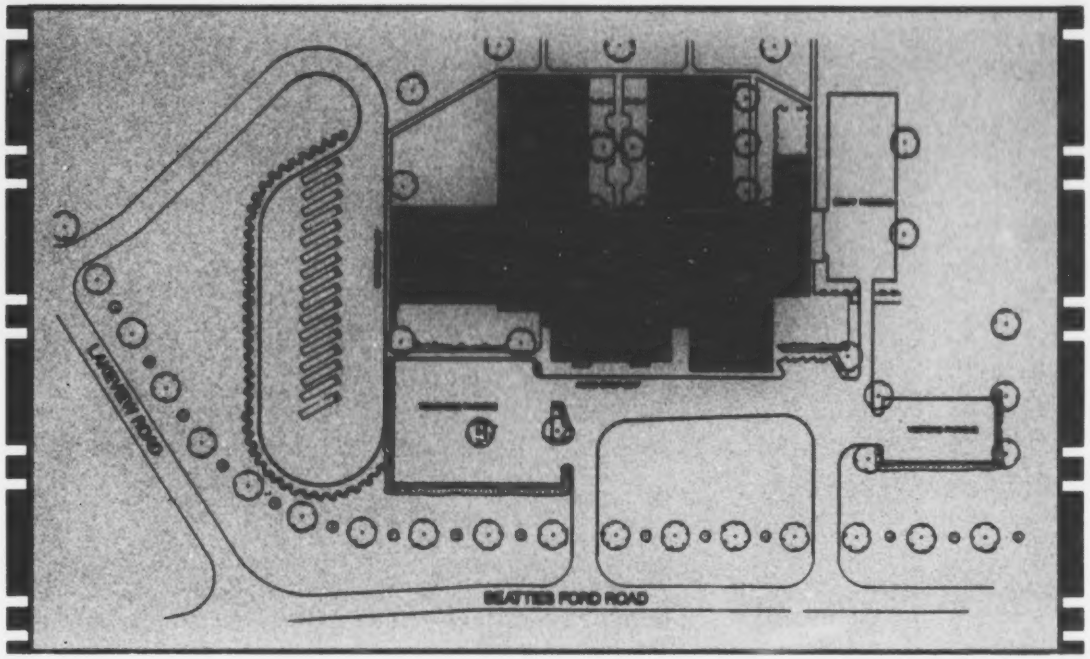
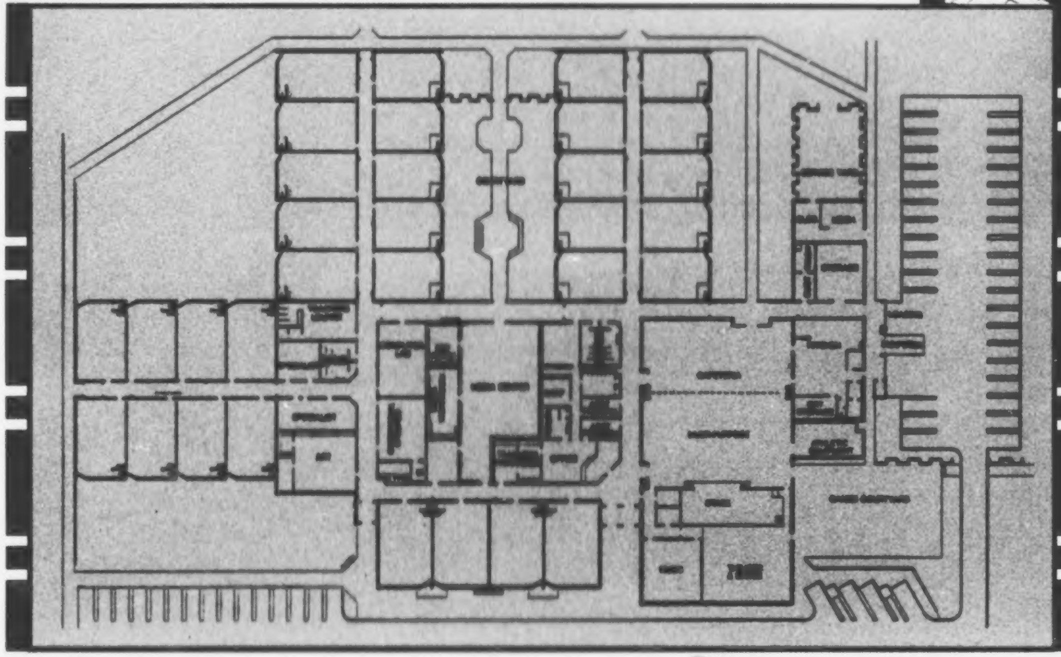
First Ward Elementary

Administrative Unit	Charlotte/Mecklenburg
Grade Organization	4-6
Approximate Capacity	800
Opening Date	Fall 1989
Architects	The Morgan Adams Group, Murray Whisnant
Landscape Architect	The Morgan Adams Group
Structural Engineers	Structural Engineers, Inc.
Mechanical Engineers	Professional Engineering Assocs.
Electrical Engineers	Steve W. Haas & Associates
Total Square Footage	40,380
New Construction 18,534 sf, Renovation 21,846 sf	
Total Cost	$2,078,739
Building Cost Per Square Foot	$51.47



Northwest Elementary





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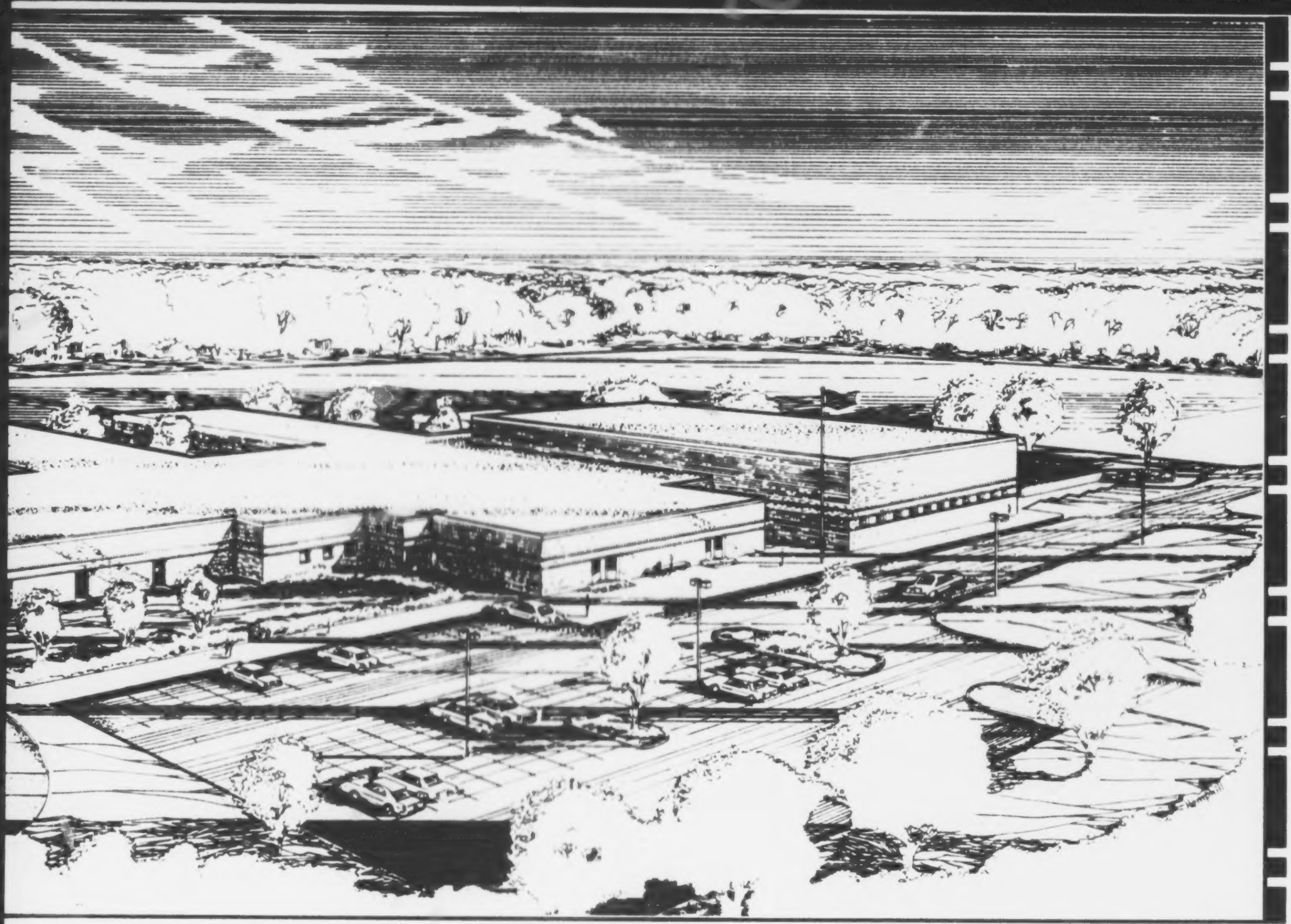
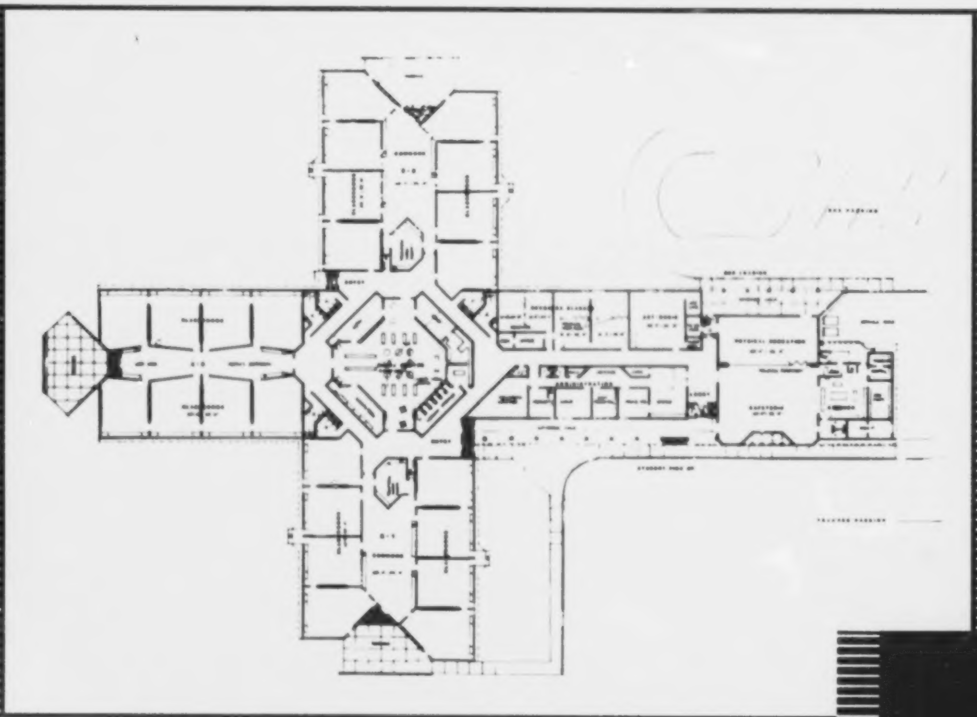
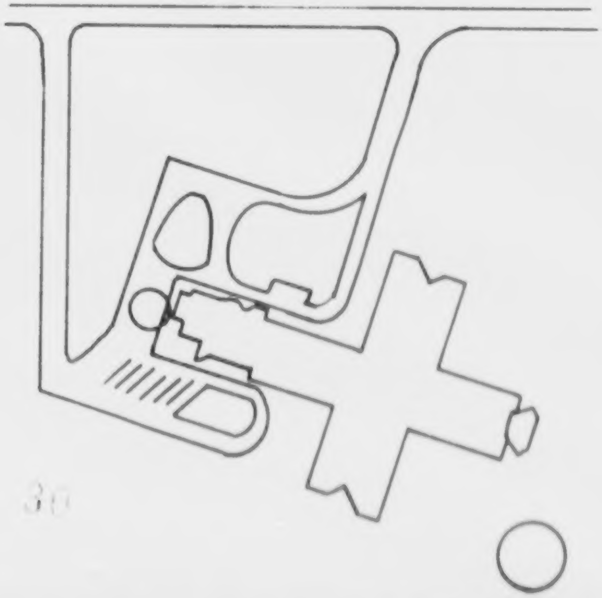
Northwest Elementary



Administrative Unit	Charlotte-Mecklenburg	Structural Engineers	Browning-Smith
Grade Organization	K-6	Mechanical & Electrical Engineers	McKnight-Smith
Approximate Capacity	800	Square Footage	72,000
Opening Date	August 1990	Total Cost	$3,322,080
Architects	Hemphill Associates	Building Cost Per Square Foot	$46.14

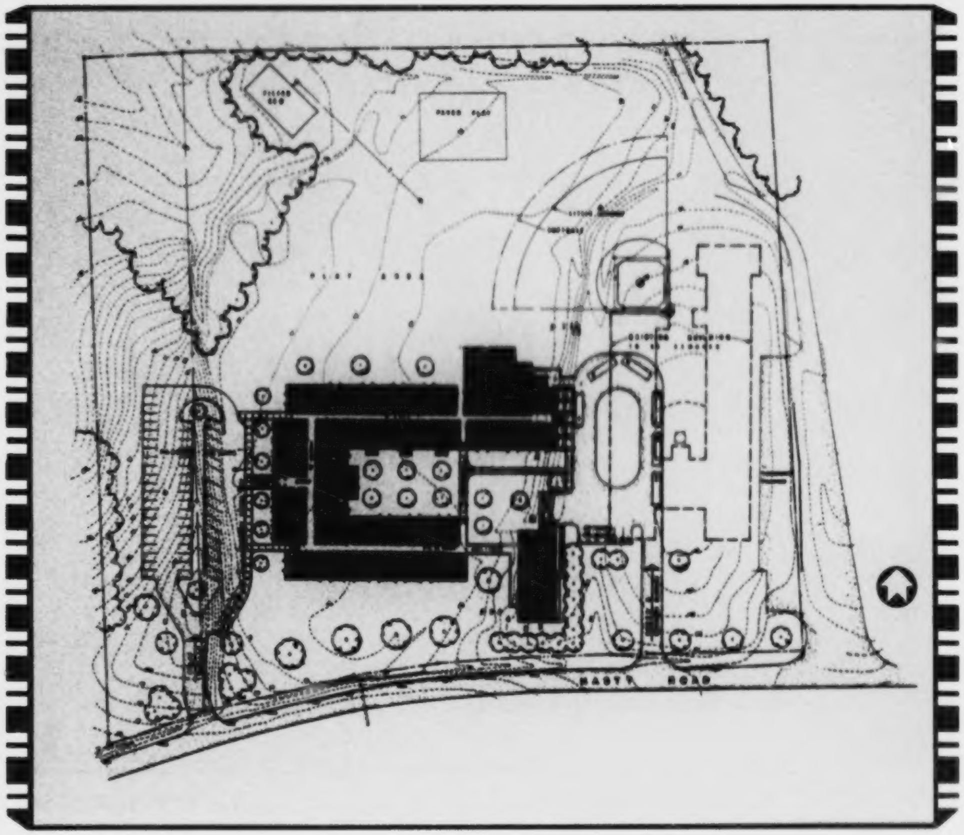
Roger R. Bell Elementary

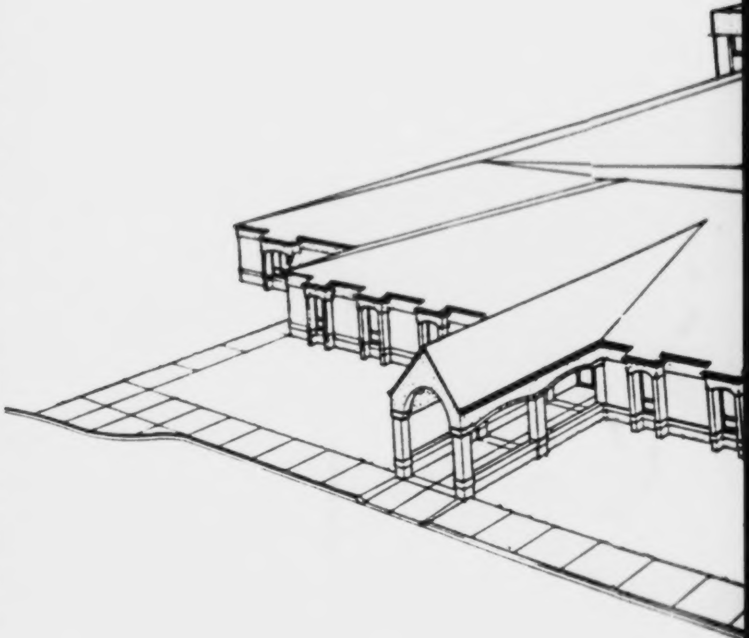


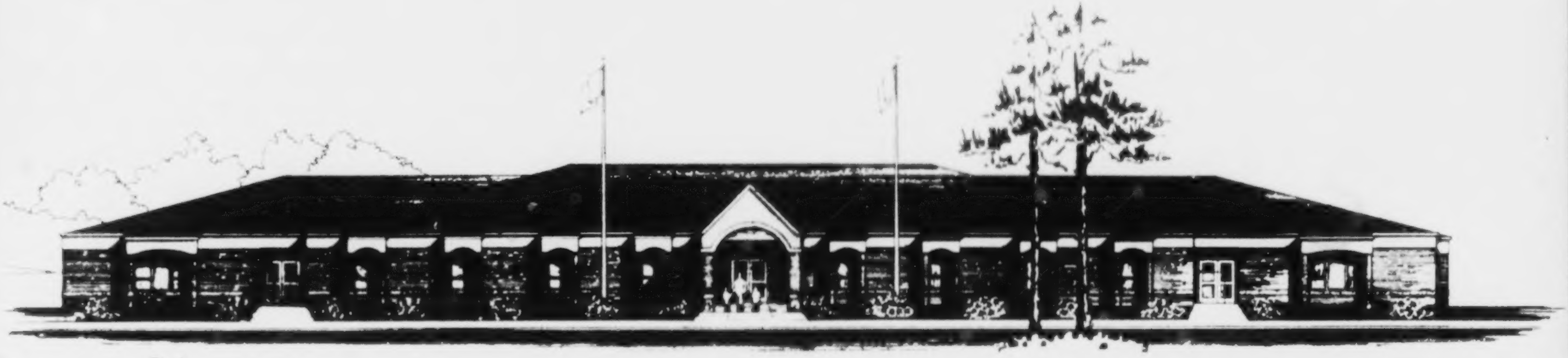


Roger R. Bell Elementary

Administrative Unit	Craven County
Grade Organization	K-5
Approximate Capacity	625
Opening Date	September 1986
Architects	Stephens & Francis
Structural Engineers	G K C Associates
Mechanical Engineers	Buffaloe, Morgan & Associates
Electrical Engineers	Buffaloe, Morgan & Associates
Square Footage	56,854
Total Cost	$3,158,621
Building Cost Per Square Foot	$55.55







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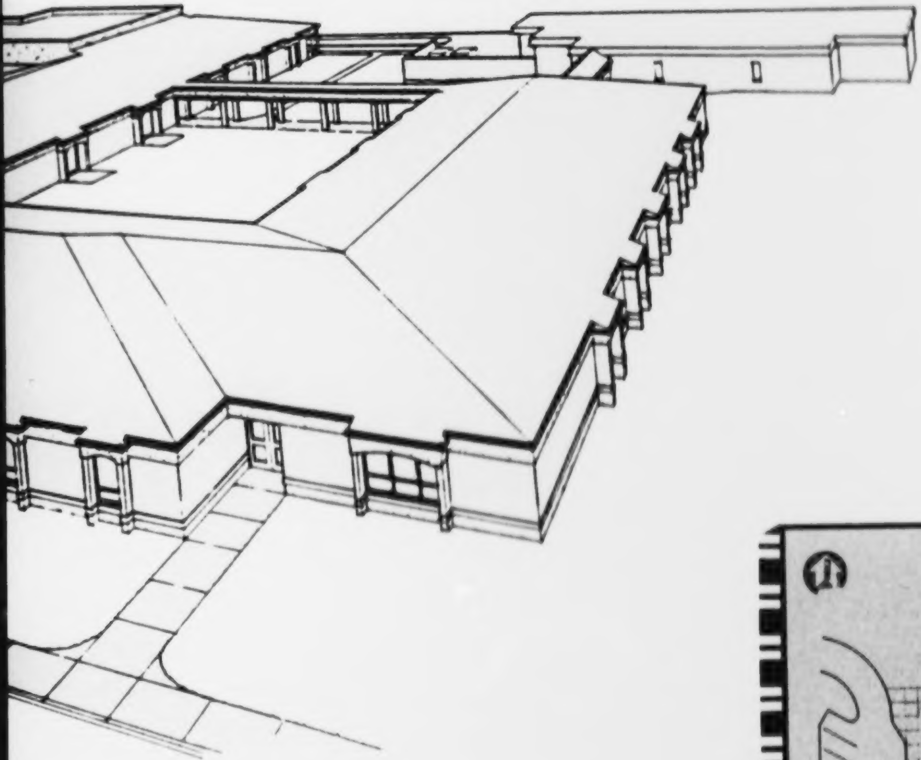
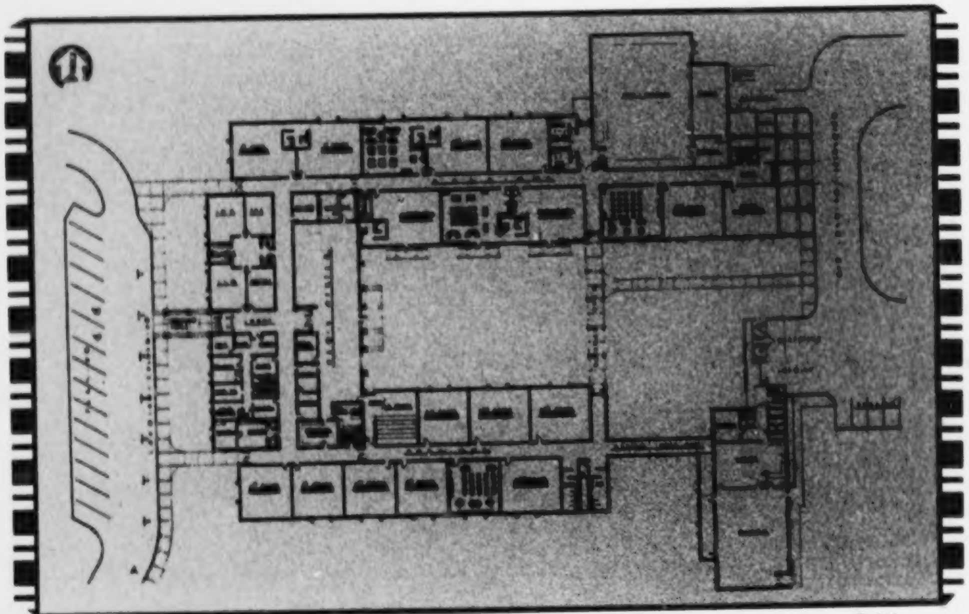
Hasty Elementary

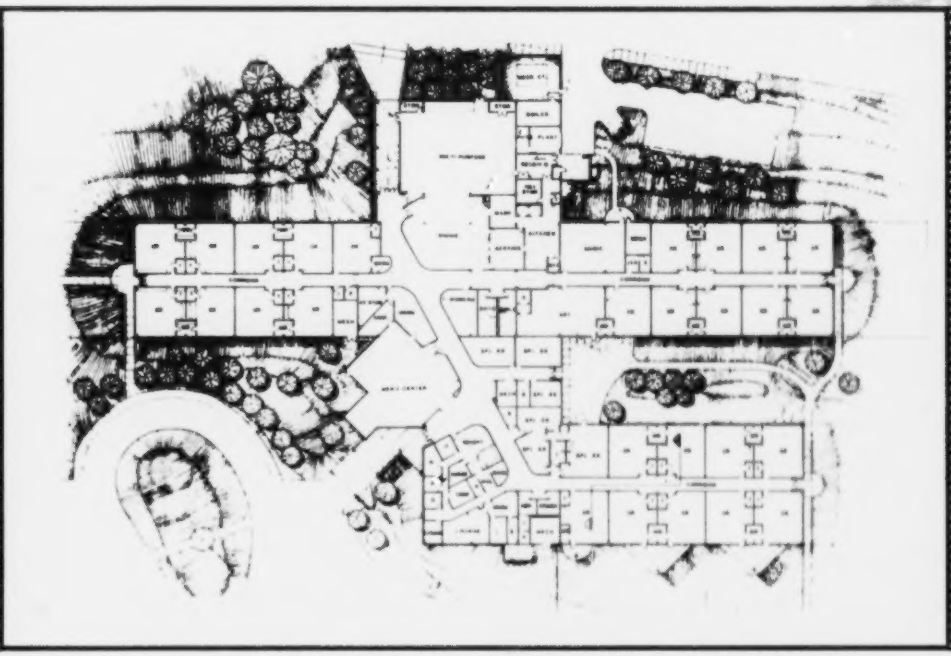
Administrative Unit	Davidson County
Grade Organization	K-5
Approximate Capacity	560
Opening Date	Fall 1989
Architects	Allred & Mercer
Landscape Architect	In House
Structural Engineers	Nallamala Engineers
Mechanical Engineers	Jeglinski Engineers, Inc.
Electrical Engineers	Jeglinski Engineers, Inc.
Square Footage	52,000
Total Cost	$2,800,000
Building Cost Per Square Foot	$53.84





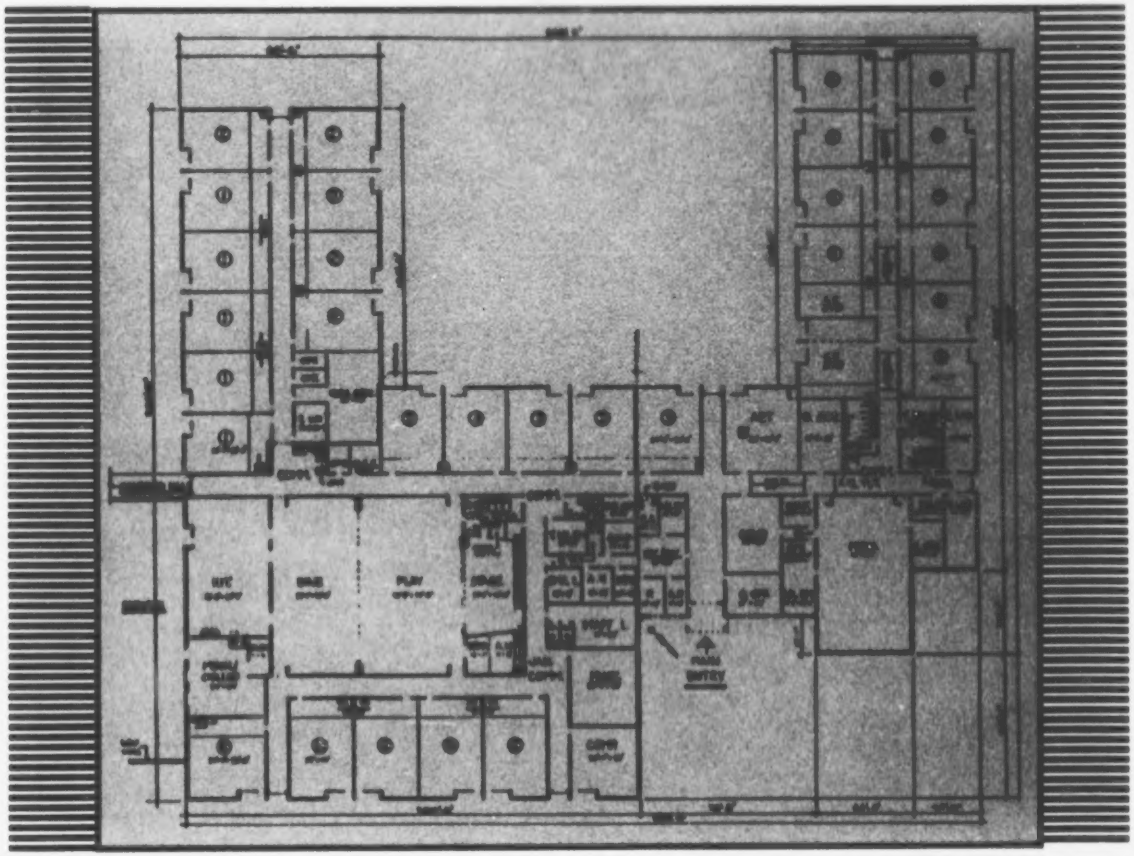
Southwest Elementary

Administrative Unit	Durham County
Grade Organization	K-5
Approximate Capacity	600
Opening Date	Fall 1989
Architects	DePasquale Thompson Wilson
Landscape Architect	Coulter Associates
Structural Engineers	G K C Associates
Mechanical and Electrical Engineers	Knott & Roberts
Square Footage	72,000
Total Cost	$4,900,000
Building Cost Per Square Foot	$68.05



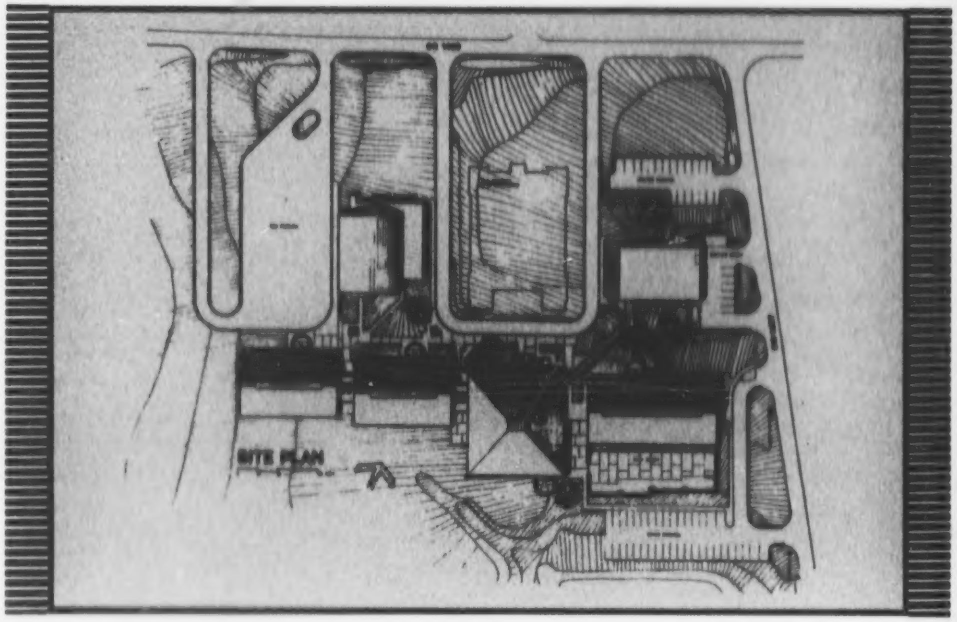
Union Cross Elementary

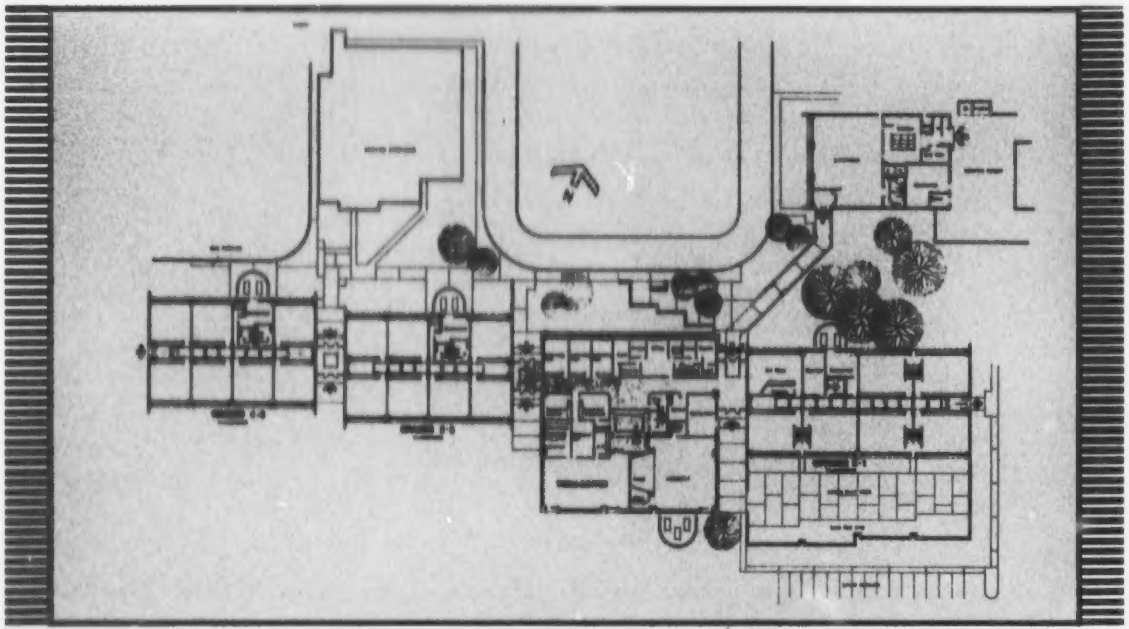
Administrative Unit	Forsyth County	Structural Engineers	Sutton-Kennerly & Associates
Grade Organization	K-5	Mechanical Engineers	Consultant Engineer Service
Approximate Capacity	650	Electrical Engineers	William G. Robinson, Jr.
Opening Date	Fall 1991	Square Footage	77,108
Architects	Fred W. Butner, Jr., Associates	Total Cost	$5,406,578
Landscape Architect	In House	Building Cost Per Square Foot	$70.11



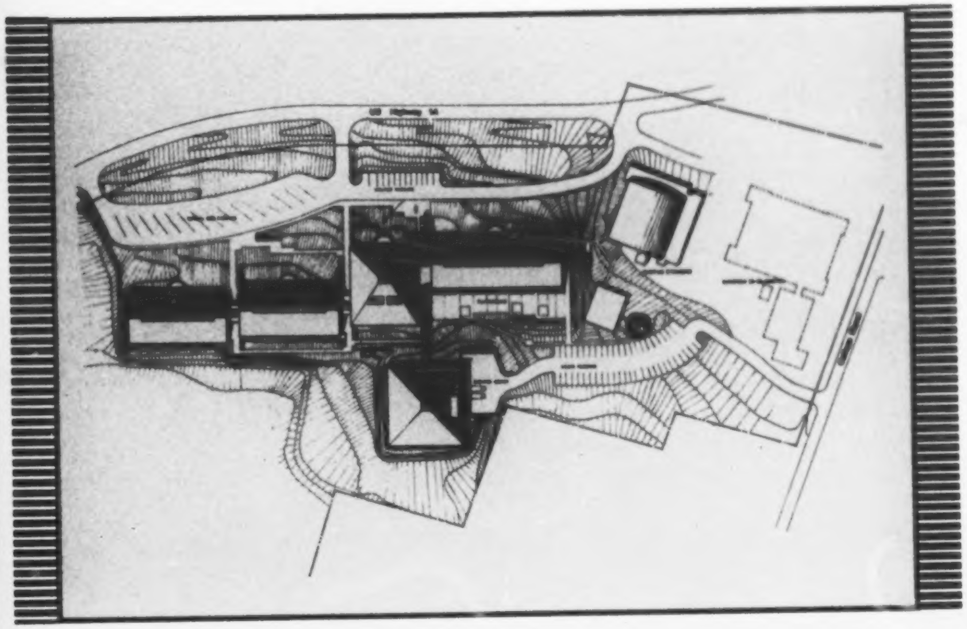
Gold Sand Elementary

Administrative Unit	Franklin County
Grade Organization	K-6
Approximate Capacity	500
Opening Date	August 1988
Architects	Shawcroft-Taylor
Landscape Architect	LandDesign Services
Structural Engineers	Lasater-Hopkins
Mechanical and Electrical Engineers	Southeastern Engineering Associates
Square Footage	52,897
Total Cost	$3,629,278
Building Cost Per Square Foot	$68.61

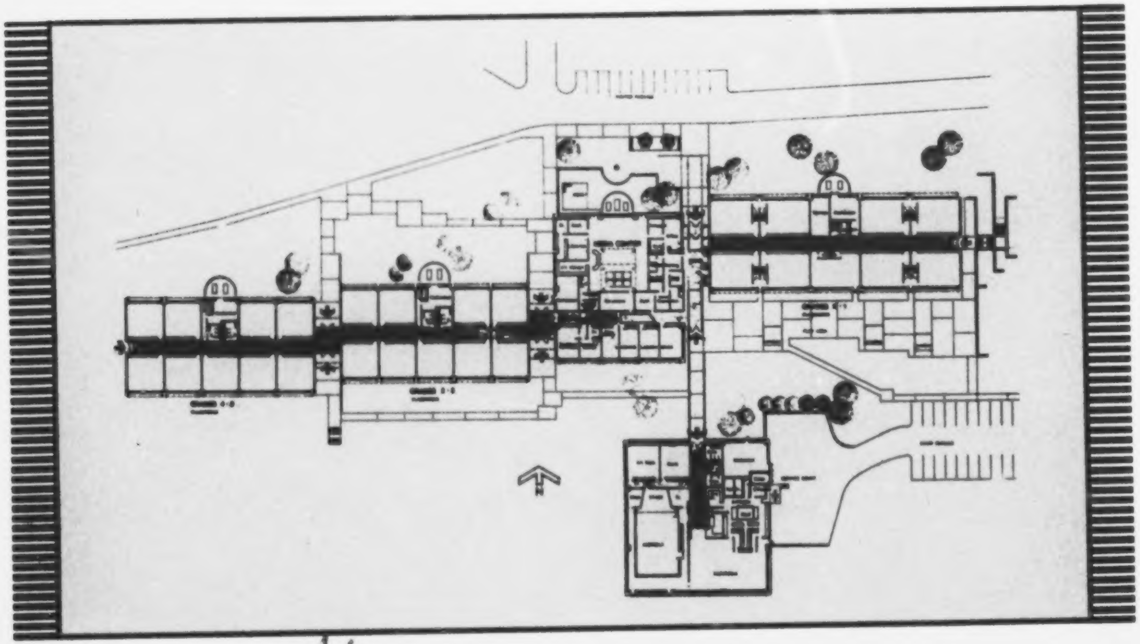




Youngsville Elementary



Administrative Unit	Franklin County
Grade Organization	K-8
Approximate Capacity	600
Opening Date	January 1988
Architects	Shawcroft-Taylor
Landscape Architect	LandDesign Services
Structural Engineers	Lasater-Hopkins
Mechanical and Electrical Engineers	Southeastern Engineering Associates
Square Footage	63,700
Total Cost	$4,078,458
Building Cost Per Square Foot	$64.03



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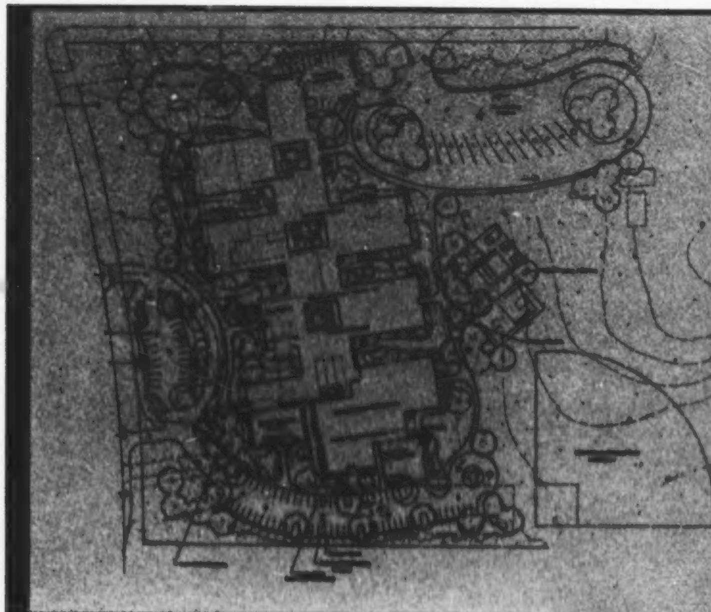

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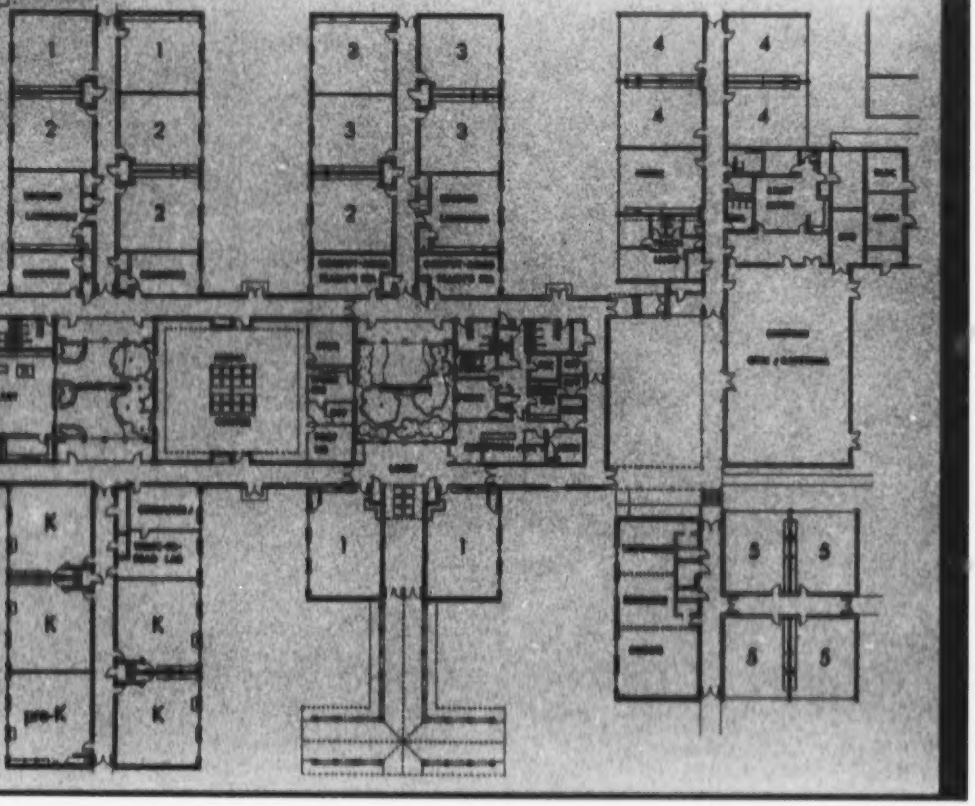

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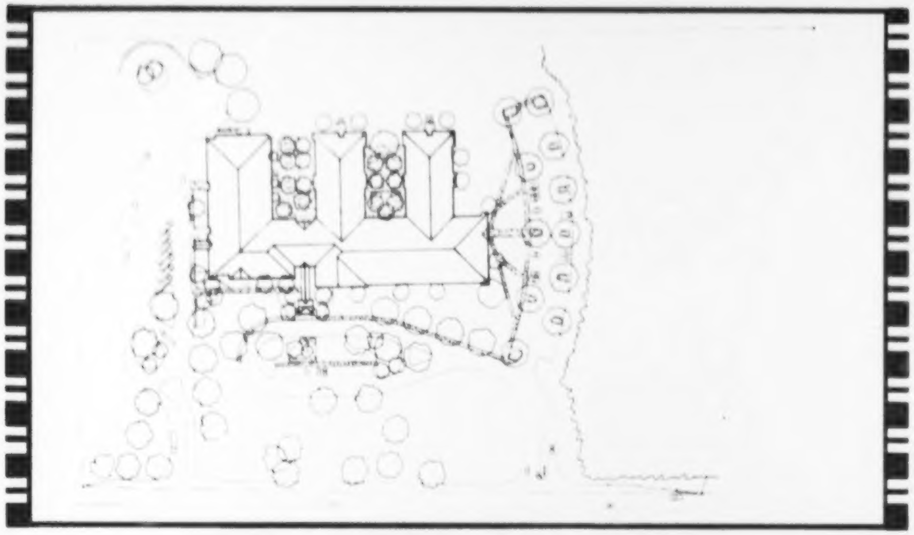
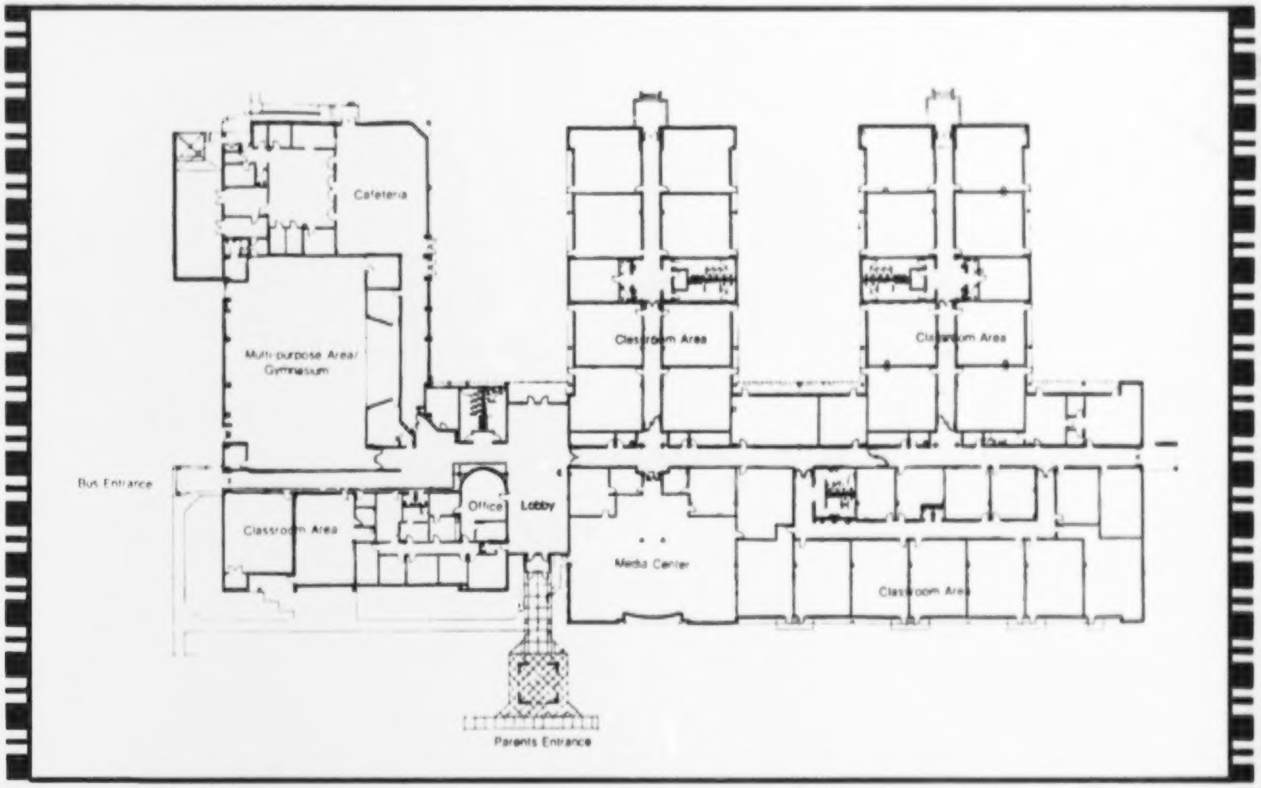
Riverview Elementary

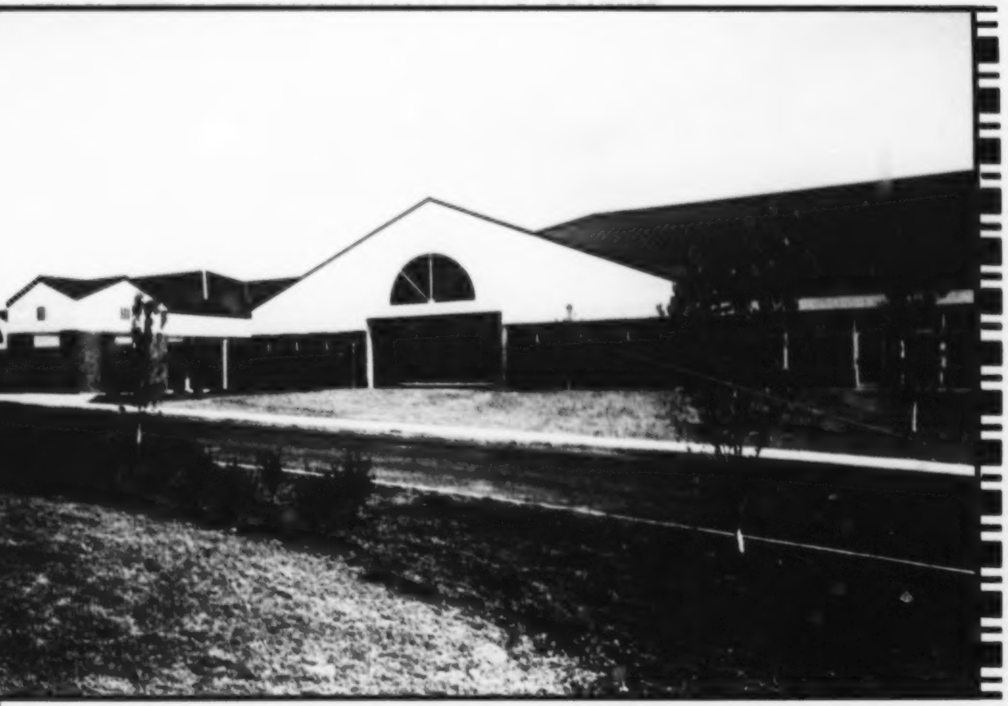
Administrative Unit	Hertford County	Structural Engineers	J. E. Greiner Company
Grade Organization	K-5	Mechanical Engineers	Omni Engineering
Approximate Capacity	650	Electrical Engineers	Omni Engineering
Opening Date	December 1991	Square Footage	67,751
Architects	Ballard McCredie Elliott Associates	Total Cost	$3,500,000
Landscape Architect	McNeely Associates	Building Cost Per Square Foot	$51.65

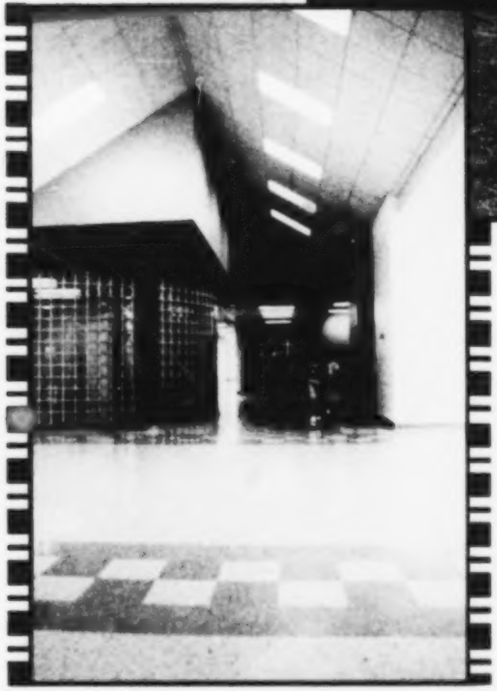
Washington Street Elementary





Washington Street Elementary

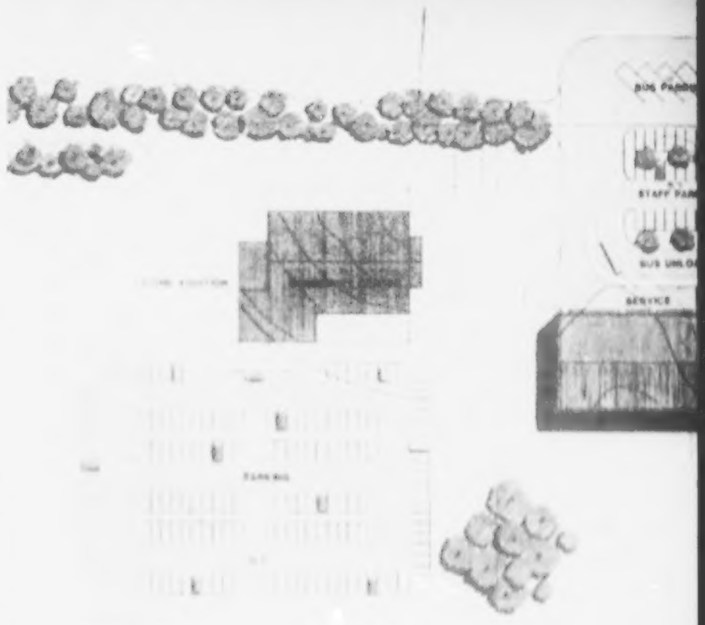




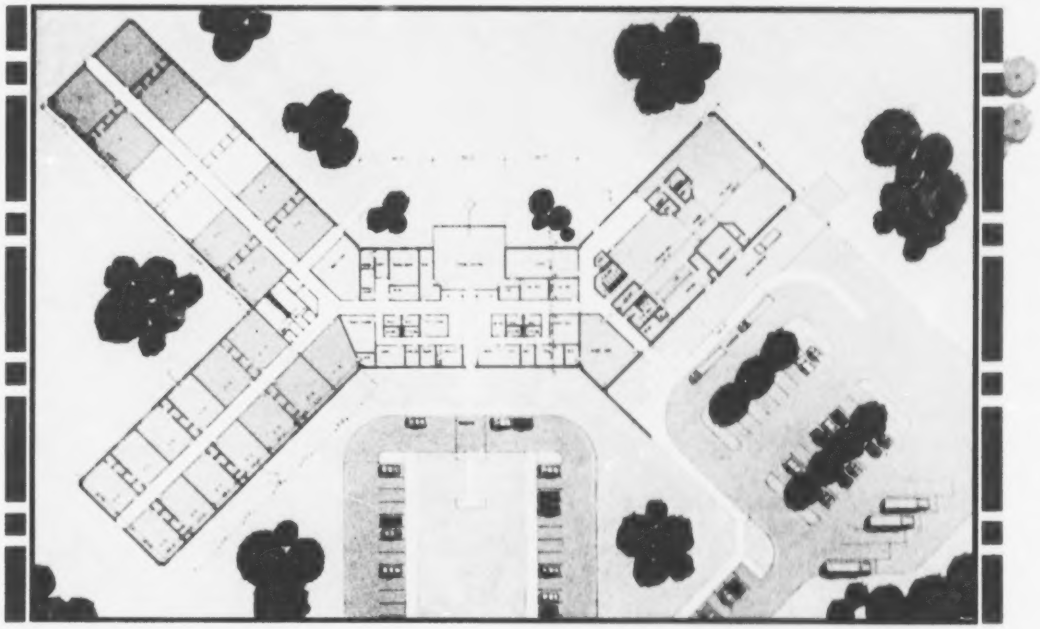
Administrative Unit	Richmond County
Grade Organization	4-6
Approximate Capacity	600
Opening Date	January 1990
Architects	Boney Architects, Inc.
Landscape Architect	Capps & Associates
Structural Engineers	McKim & Creed
Mechanical and Electrical Engineers	McKim & Creed
Square Footage	67,000
Total Cost	$4,368,555
Building Cost Per Square Foot	$65.20

Pisgah Forest Elementary

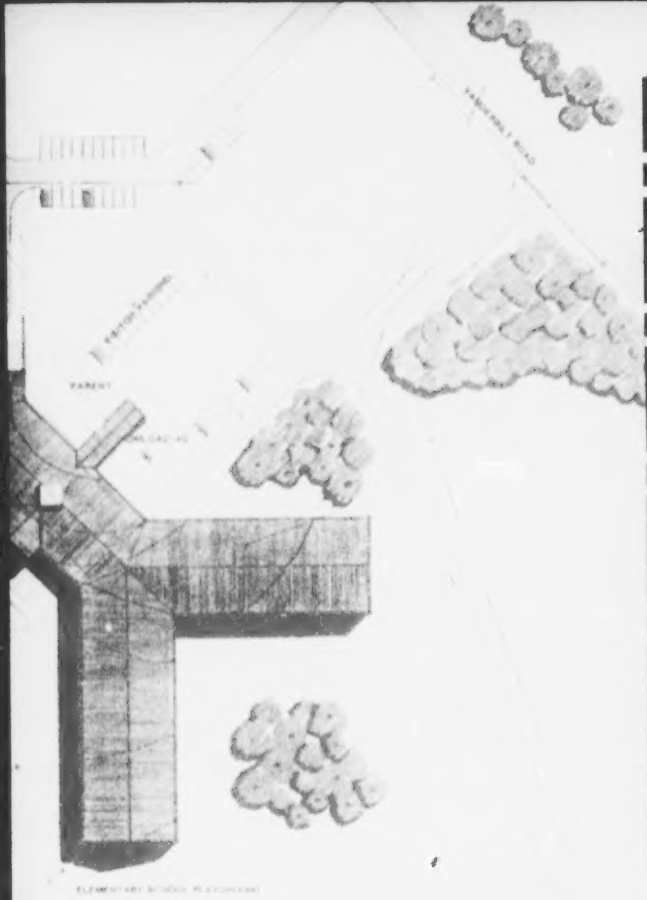
Administrative Unit	**Transylvania County**
Grade Organization	**K-5**
Approximate Capacity	**600**
Opening Date	**Fall 1991**
Architects	**Martin Boal Anthony & Johnson**
Structural Engineers	**Browning-Smith**
Mechanical Engineers	**McKnight-Smith**
Electrical Engineers	**Bullard Associates**
Square Footage	**61,155**
Total Cost	**$4,051,977**
Building Cost Per Square Foot	**$66.25**

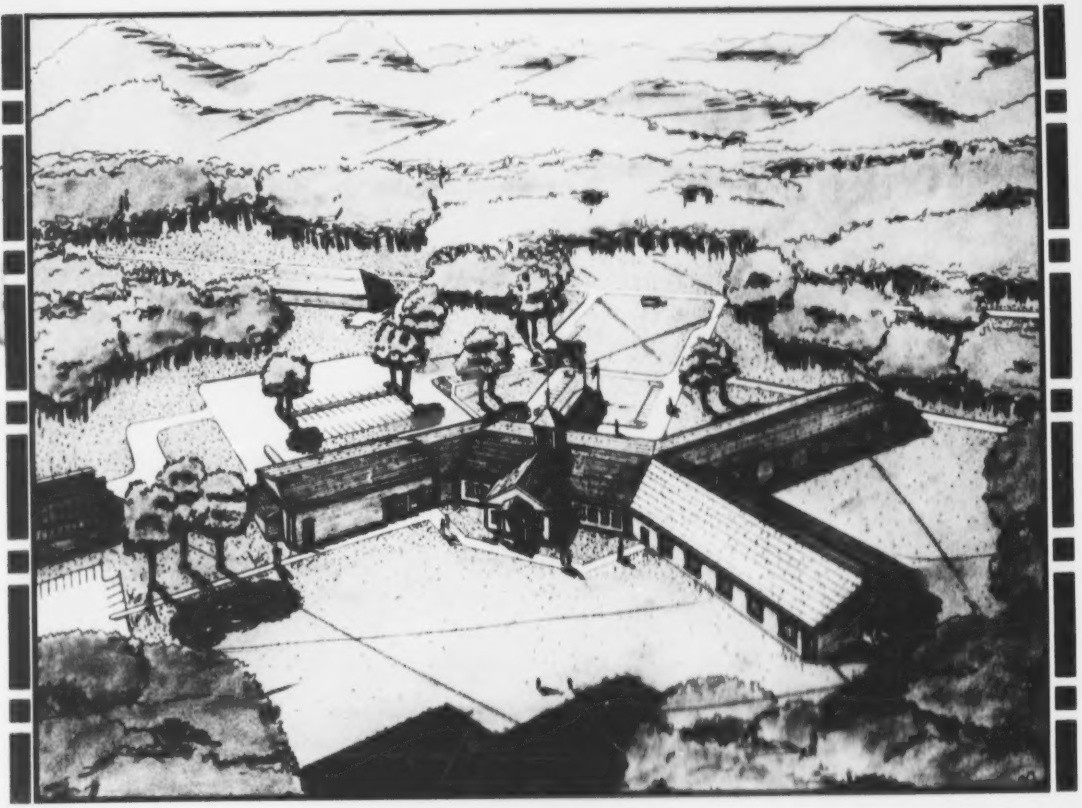


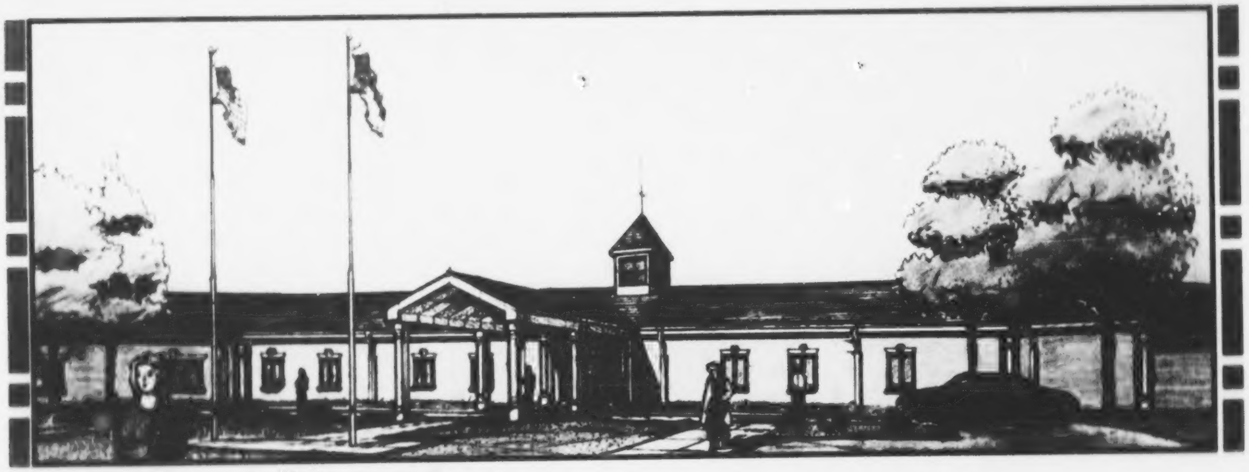
SITE PLAN



Pisgah Forest Elementary







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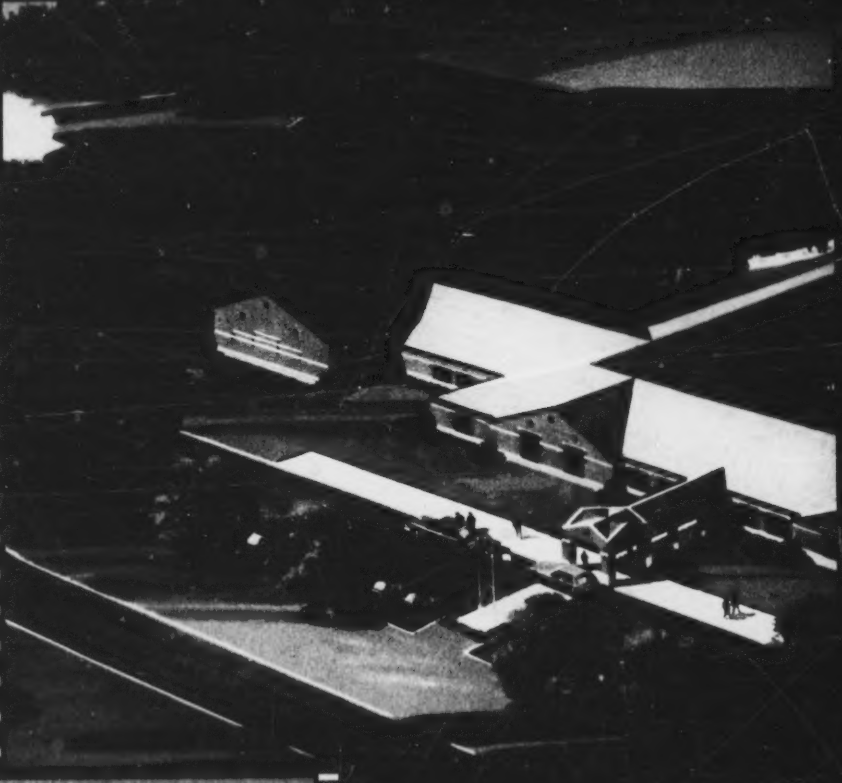
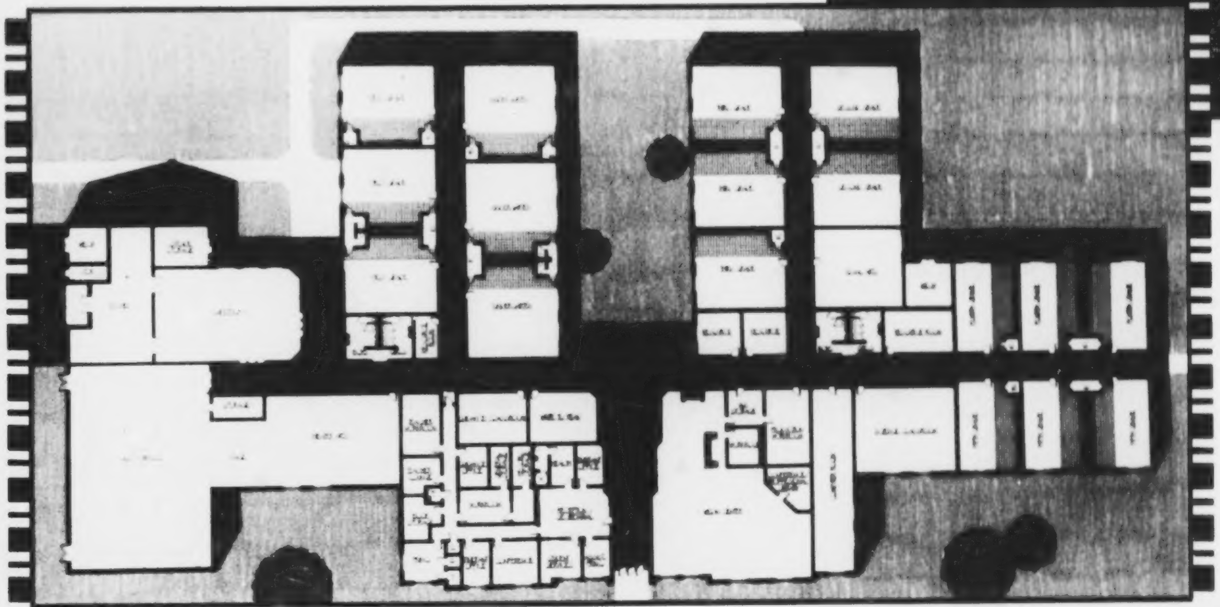
Union Elementary

Administrative Unit	Union County
Grade Organization	K-5
Approximate Capacity	500
Opening Date	Fall 1991
Architects	Martin Boal Anthony & Johnson
Structural Engineers	Armfield
Mechanical Engineers	Integrated Engineering Services
Electrical Engineers	Integrated Engineering Services
Square Footage	53,230
Total Cost	$4,400,000
Building Cost Per Square Foot	$82.66





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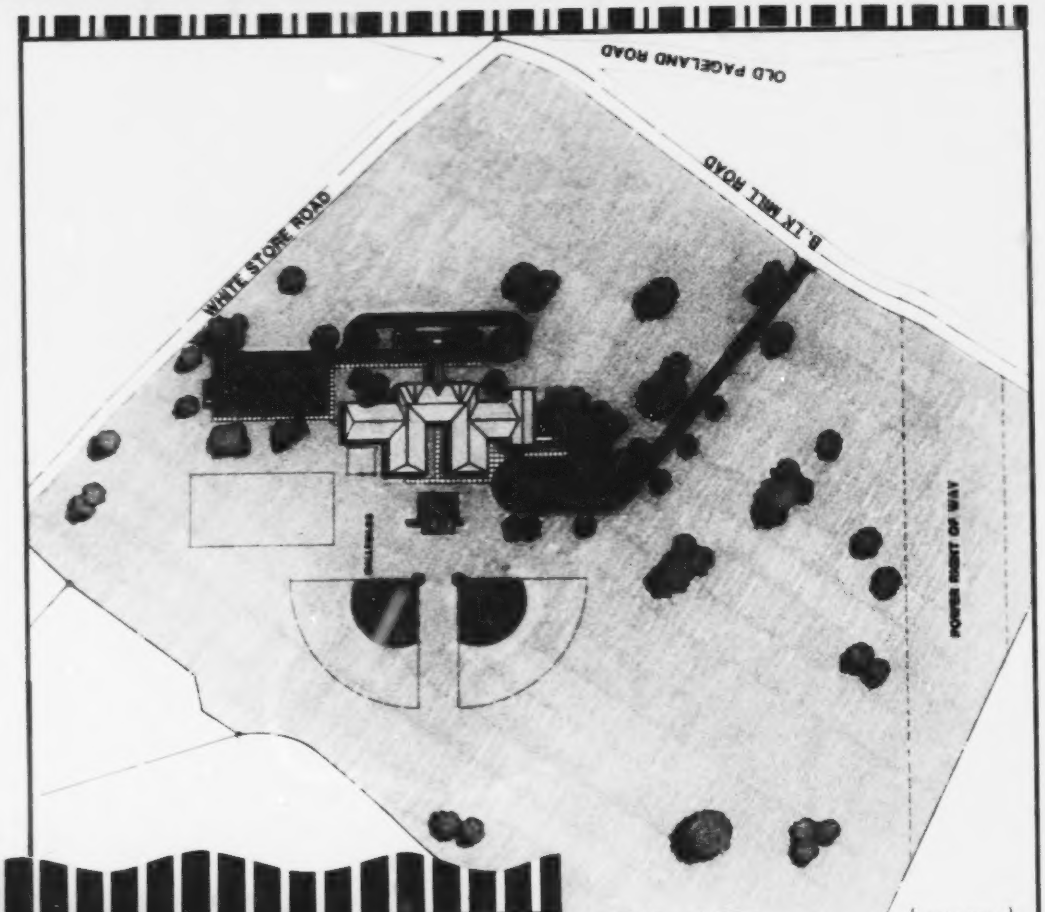
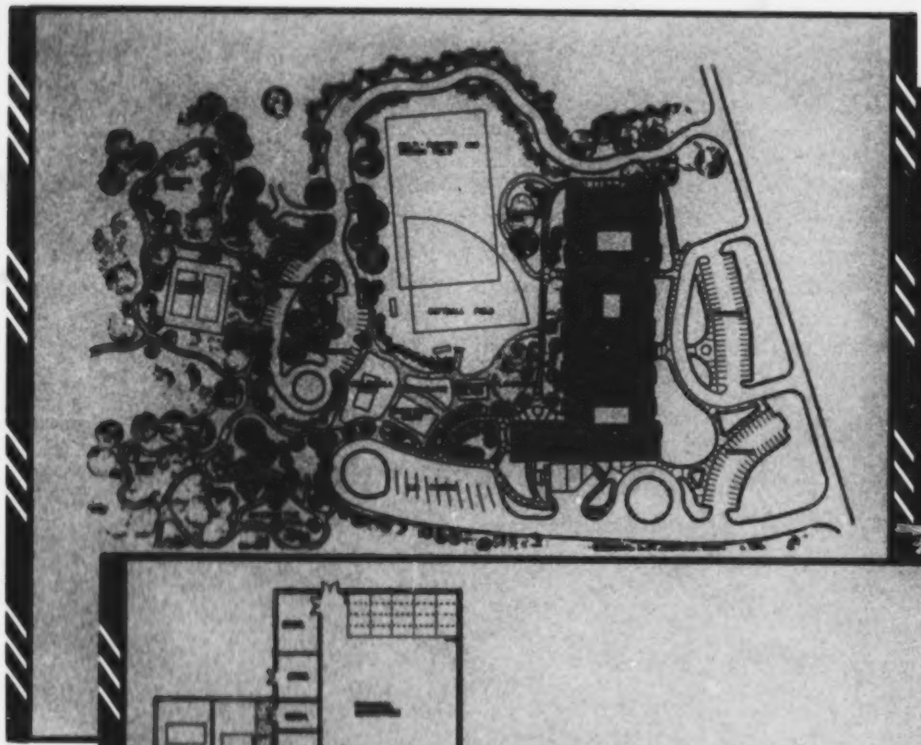
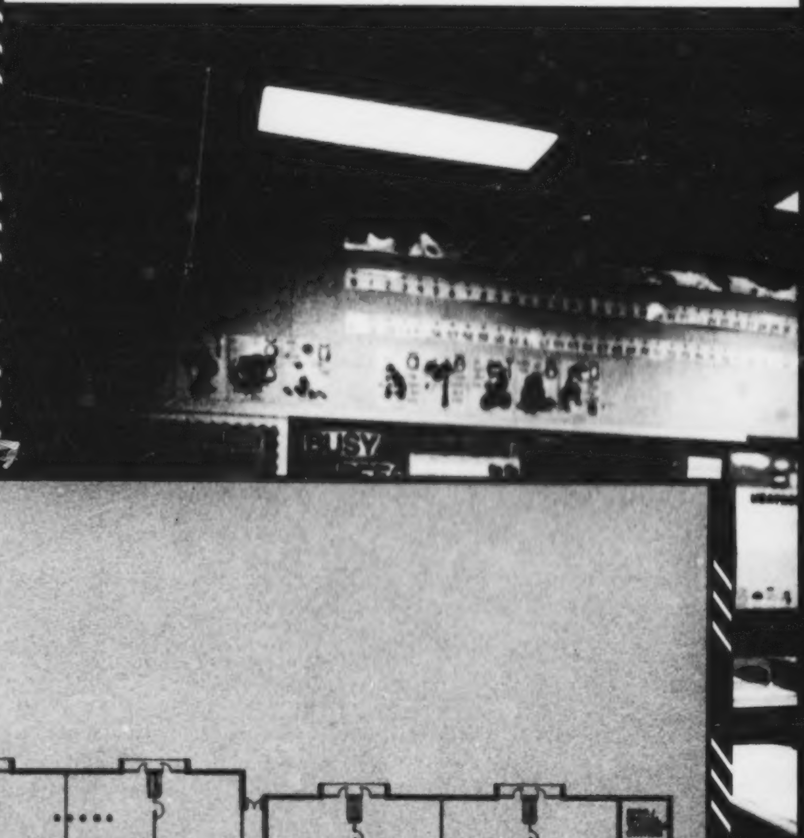
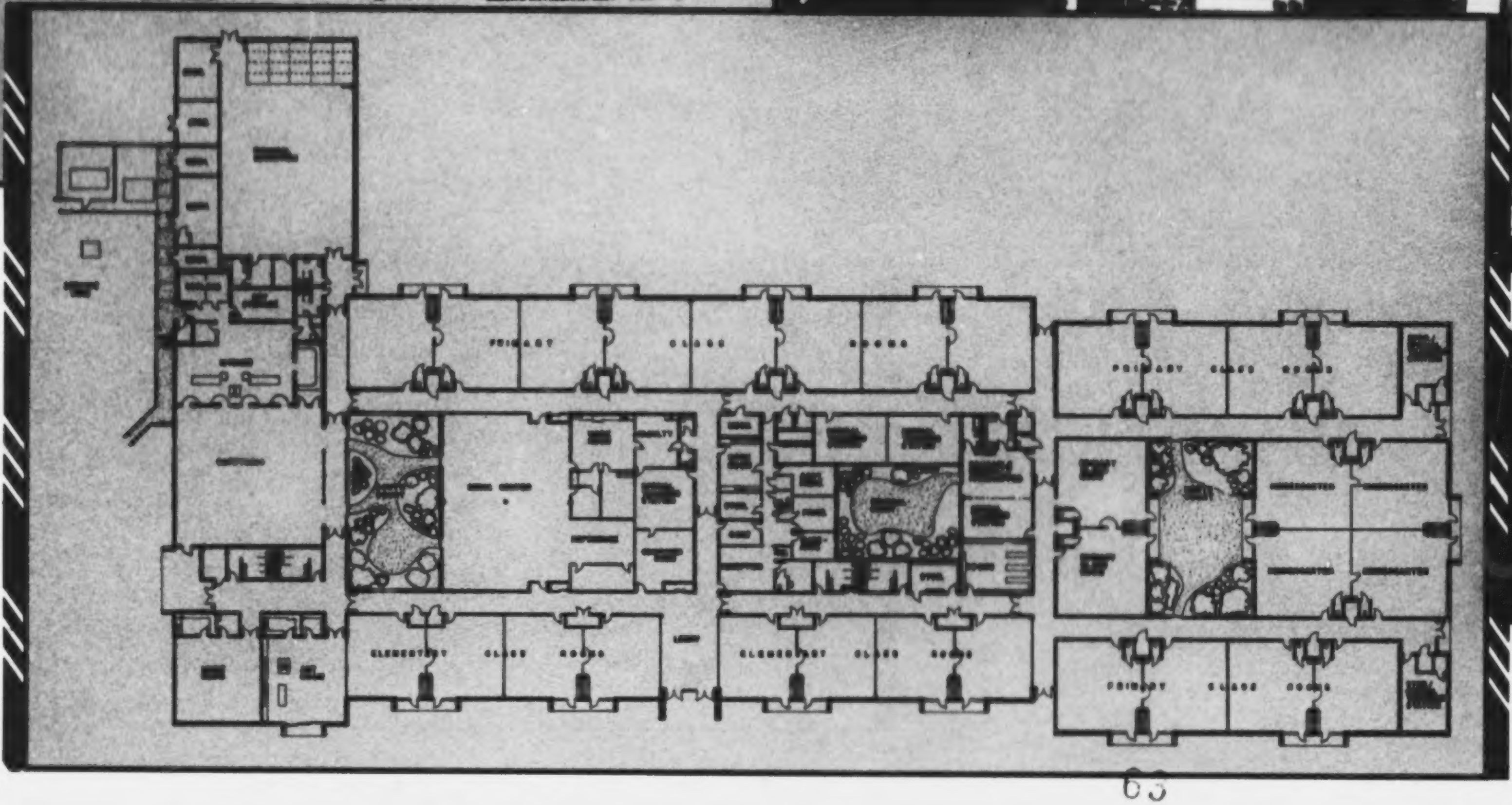
Union Elementary



Fuquay-Varina Elementary

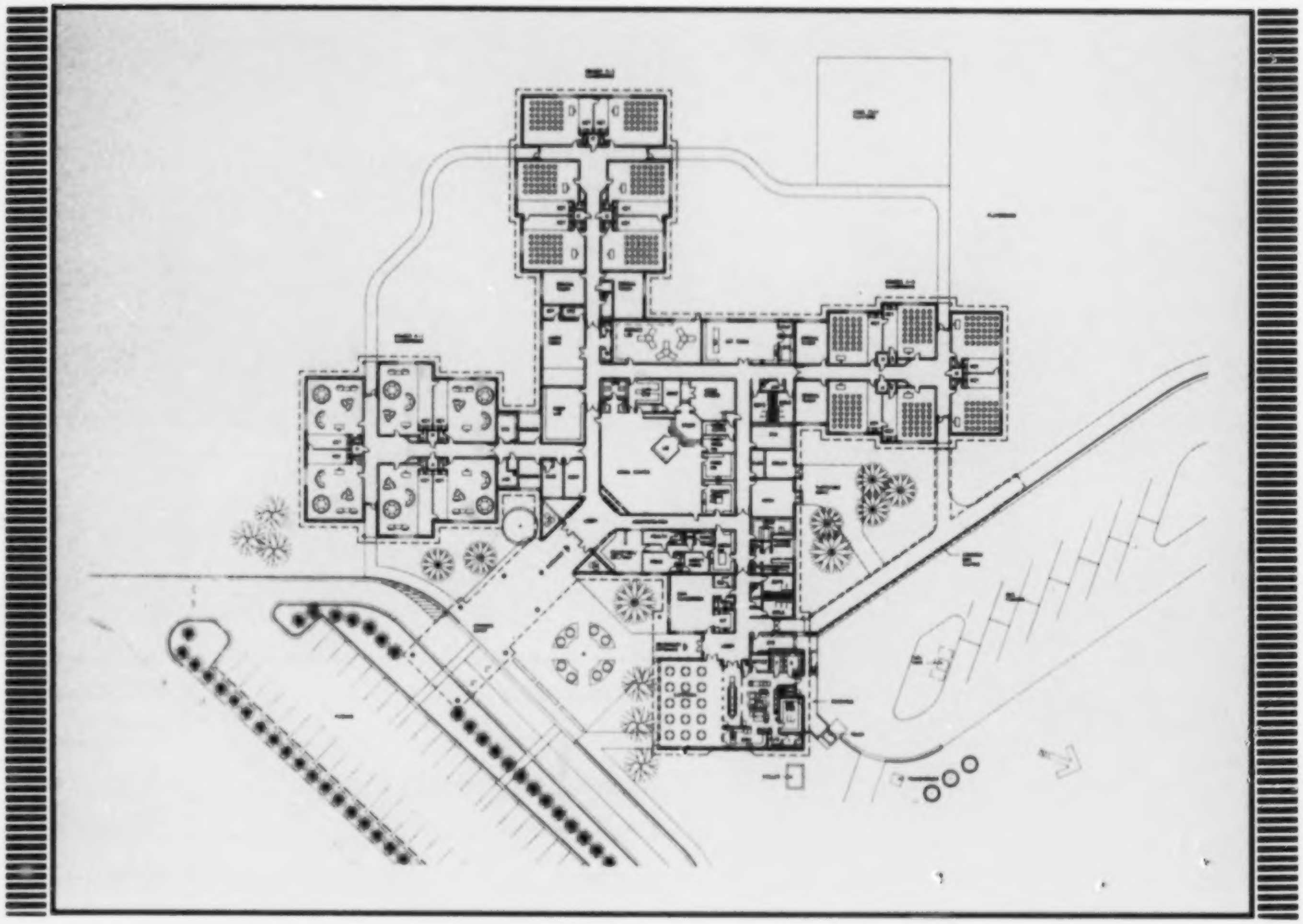


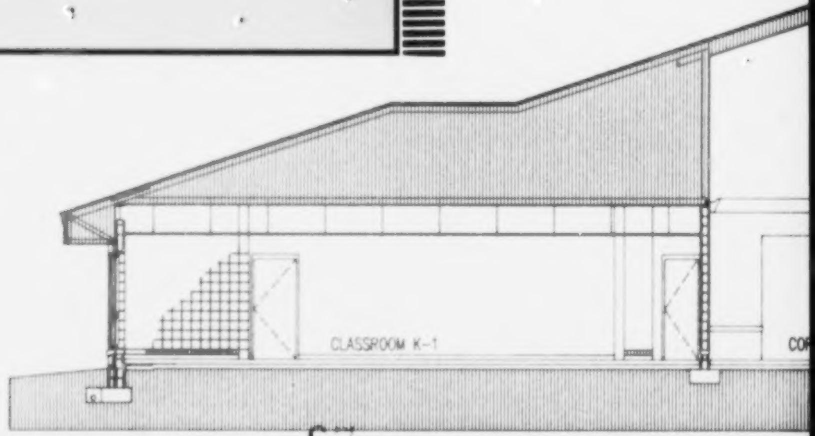




Fuquay-Varina Elementary

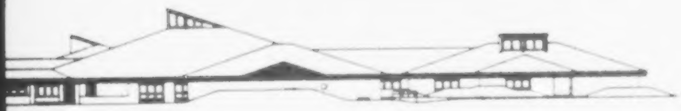
Administrative Unit	Wake County
Grade Organization	K-5
Approximate Capacity	800
Opening Date	Fall 1987
Architects	Ballard McCredie Elliott Associates
Landscape Architect	McNeely Associates
Structural Engineers	Bigger & Agnew
Mechanical Engineers	Watco Engineers
Electrical Engineers	Wells Electric
Square Footage	74,787
Total Cost	$3,559,629
Building Cost Per Square Foot	$47.60





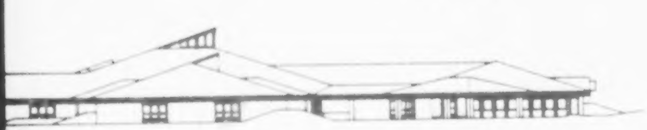
The cover photograph is of Vance Elementary School.

Vance Elementary

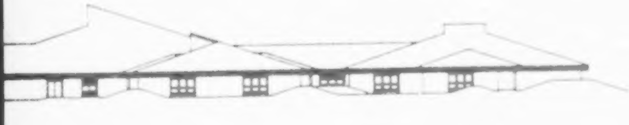


NORTH ELEVATION

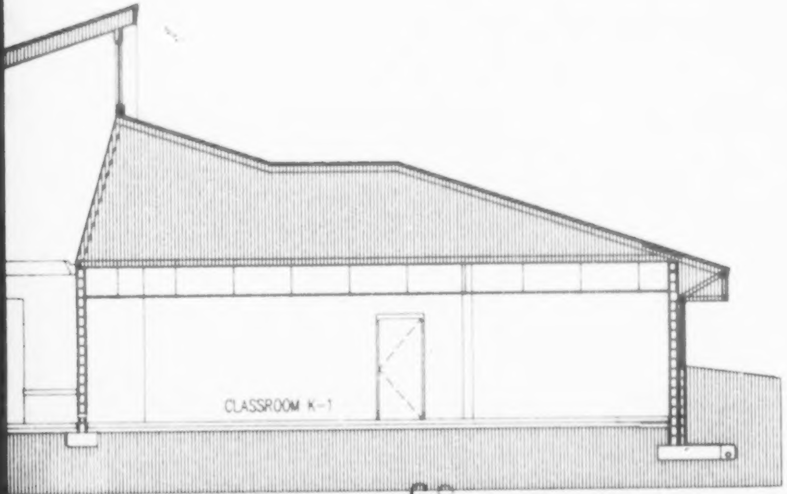
SOUTH ELEVATION



EAST ELEVATION



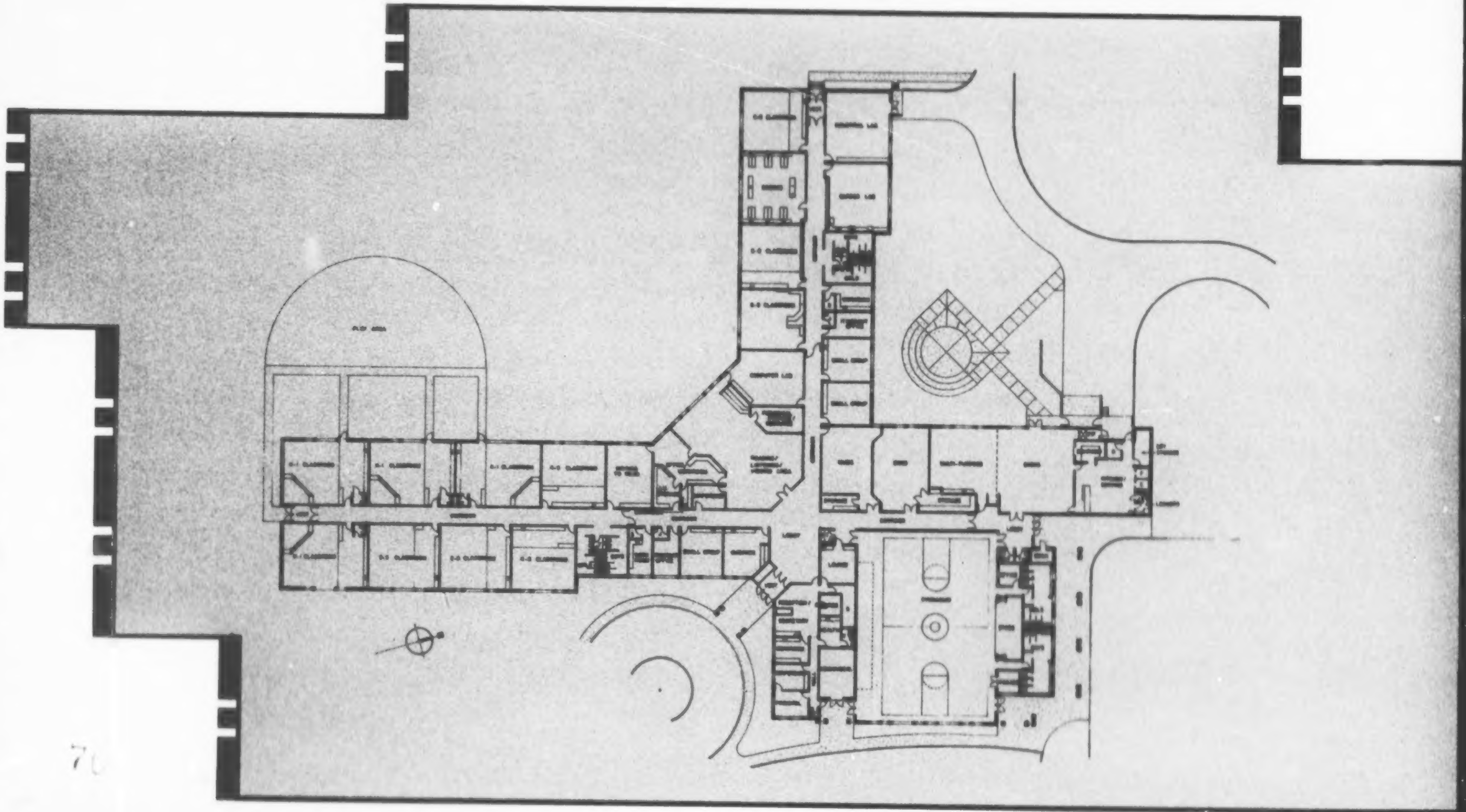
WEST ELEVATION



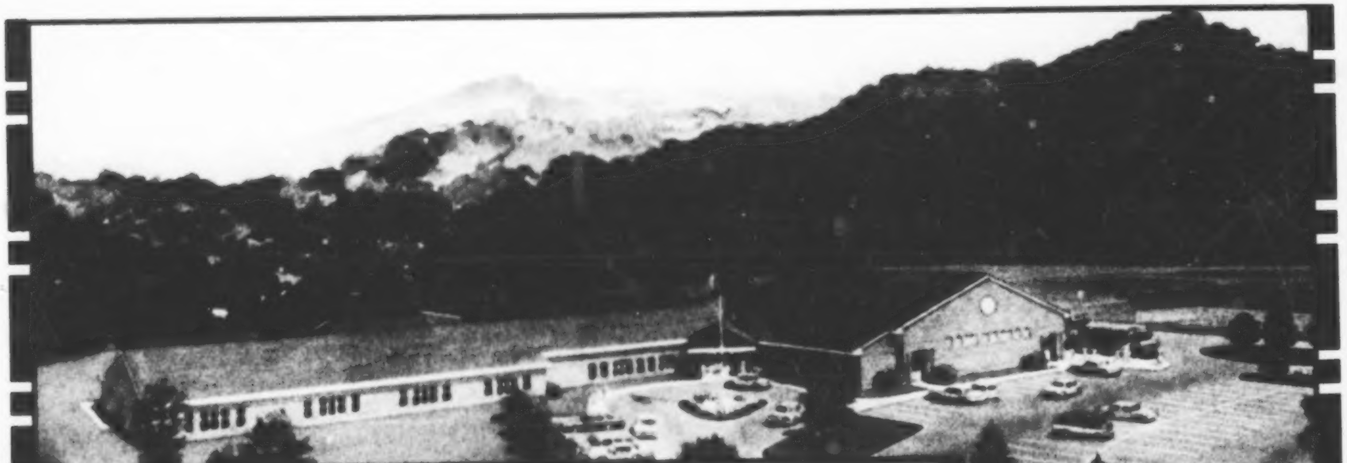
Administrative Unit	Wake County
Grade Organization	K-5
Approximate Capacity	450
Opening Date	January 1989
Architects	Team Architects, Inc.
Landscape Architect	Hunter, Reynolds, Jewell
Structural Engineers	Lasater-Hopkins
Mechanical Engineers	Perry & Associates
Electrical Engineers	Heister C. Cease
Square Footage	61,983
Total Cost	$3,823,713
Building Cost Per Square Foot	$61.69

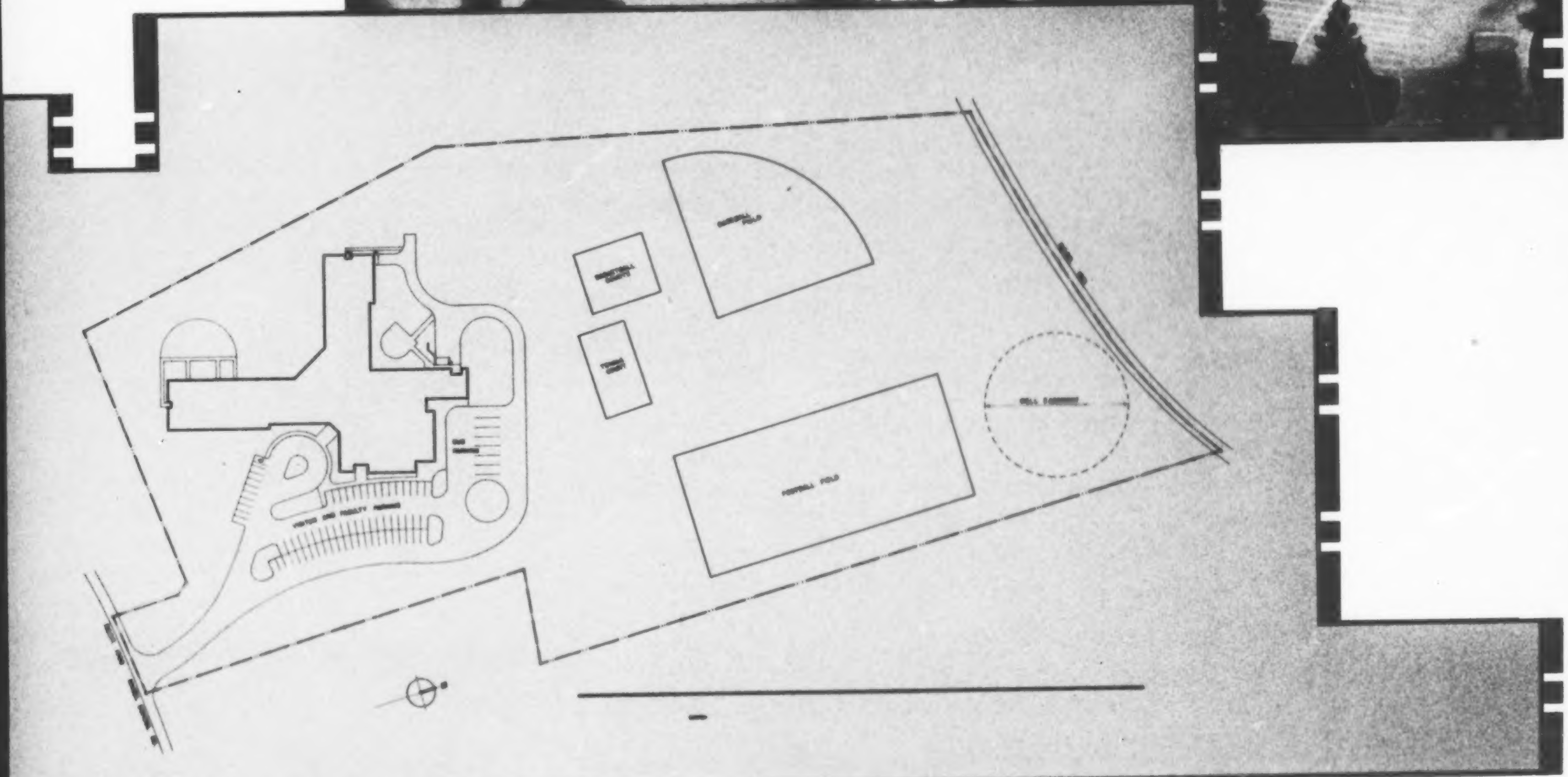
Mabel Elementary

Administrative Unit	Watauga County	Mechanical Engineers	Associated Engineering Consultants
Grade Organization	K-8	Electrical Engineers	Associated Engineering Consultants
Approximate Capacity	300	Square Footage	47,750
Opening Date	January 1991	Total Cost	$3,340,435
Architects	Howell Associates	Site Development Cost	$401,298
Structural Engineers	Williams & Associates	Building Cost Per Square Foot	$56.43

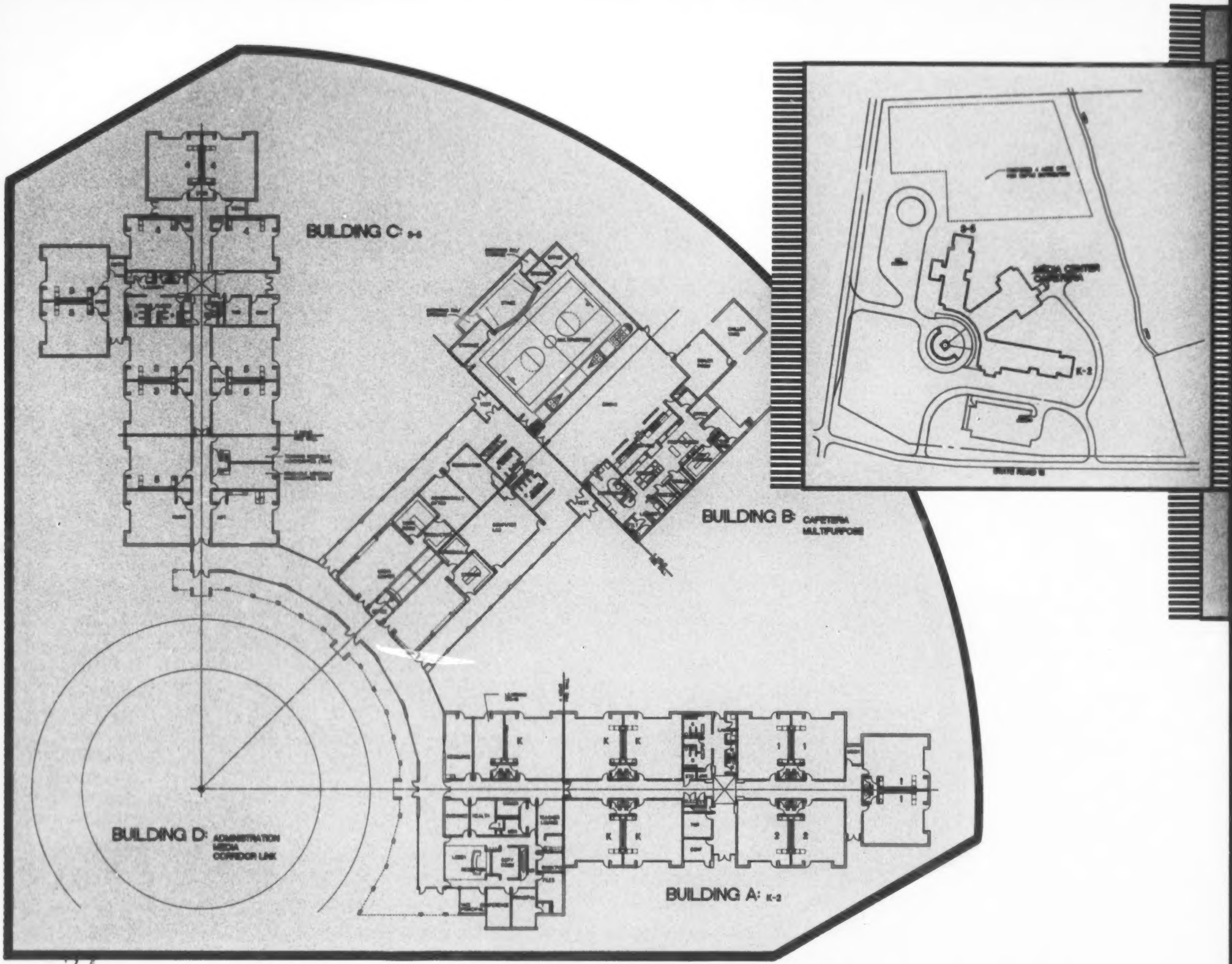


Mabel Elementary

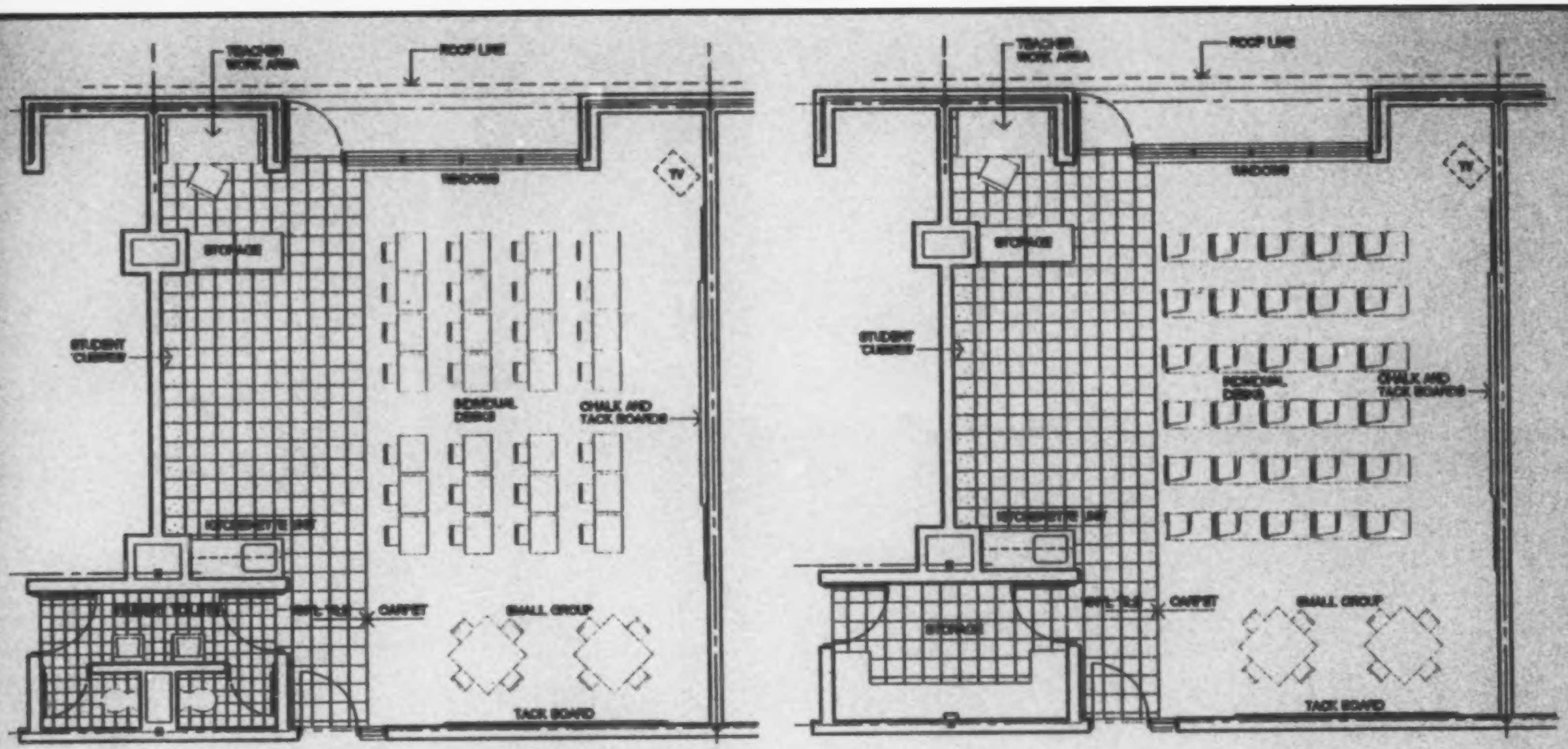




Northeast Wayne Elementary

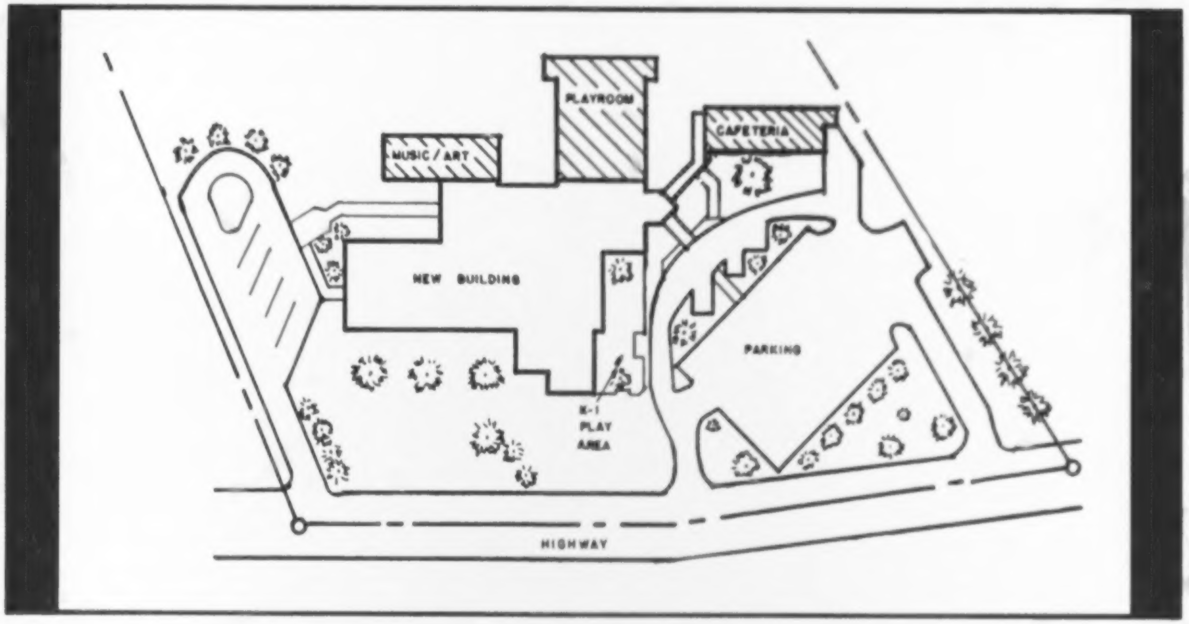

BUILDING C: 3-5
BUILDING B: CAFETERIA MULTIPURPOSE
BUILDING D: ADMINISTRATION MEDIA CORRIDOR LINK
BUILDING A: K-2
K
K
K
K
K
K
1
1
2
2
1
3-5
MEDIA CENTER CAFETERIA
K-2

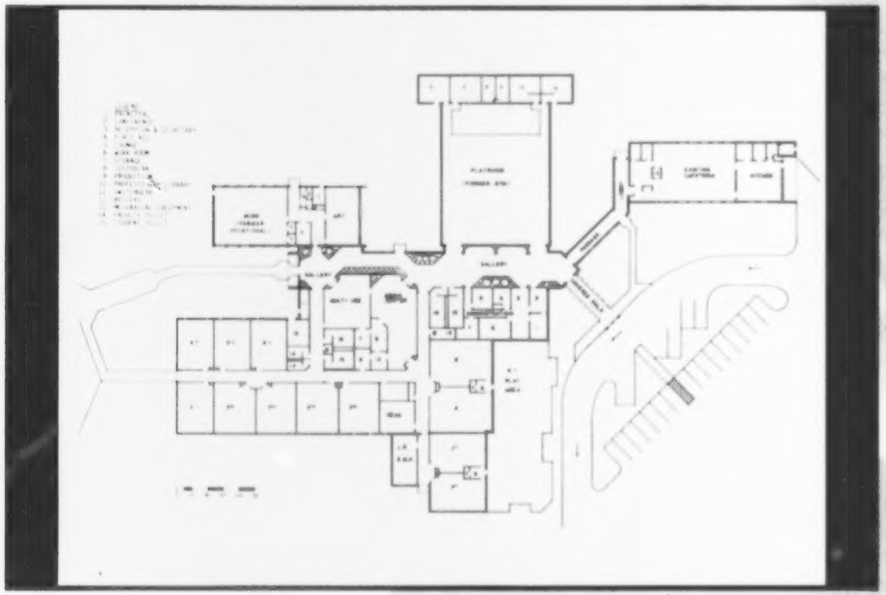
Northeast Wayne Elementary



K-2 **CLASSROOM LAYOUT** **3-5**

Administrative Unit	Wayne County
Grade Organization	K-5
Approximate Capacity	550
Opening Date	Fall 1991
Architects	Architects Tolson Associates
Landscape Architect	McNeely Associates
Structural Engineers	Morris & Sullivan
Mechanical Engineers	Progressive Design Collaborative
Electrical Engineers	Progressive Design Collaborative
Square Footage	60,730
Total Cost	$4,310,000
Building Cost Per Square Foot	$70.96

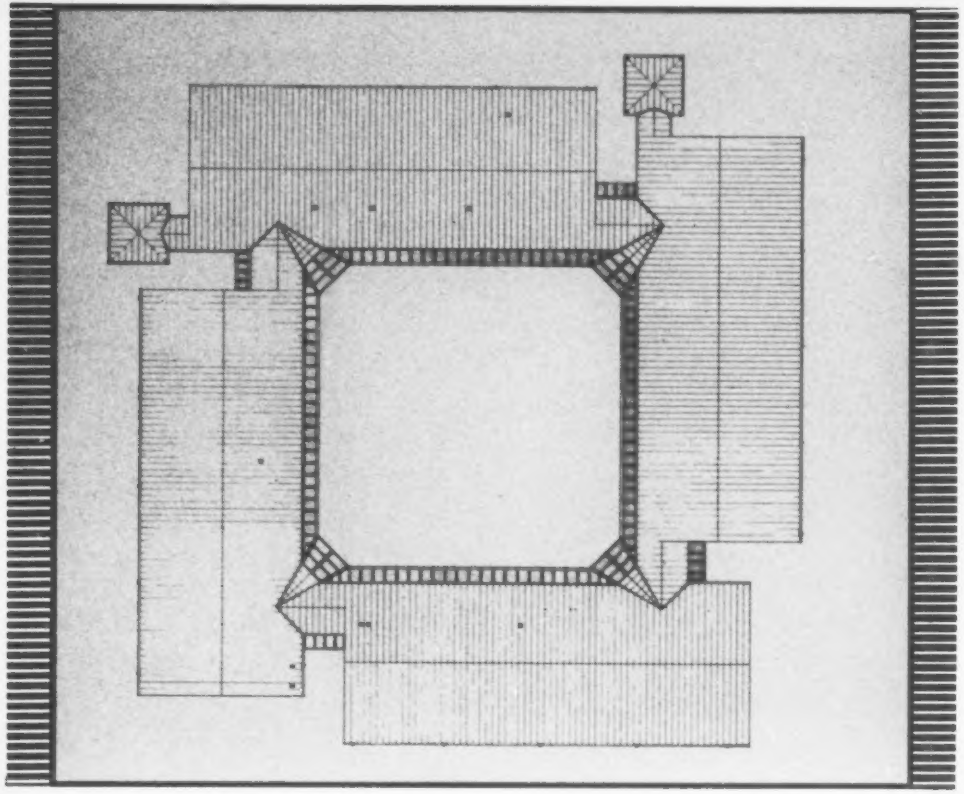

PLAYROOM
MUSIC / ART
CAFETERIA
NEW BUILDING
PARKING
K-1 PLAY AREA
HIGHWAY

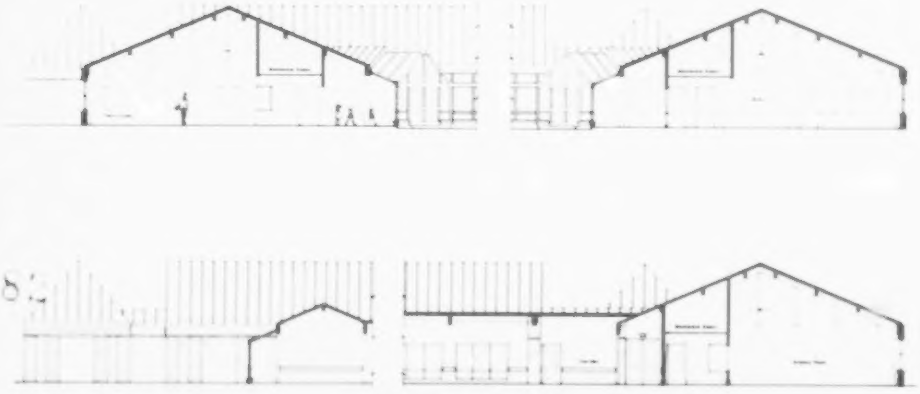

PLAYROOM (FORMER GYM)
EXISTING CAFETERIA
KITCHEN
ART
GALLERY
GALLERY
K-1 PLAY AREA

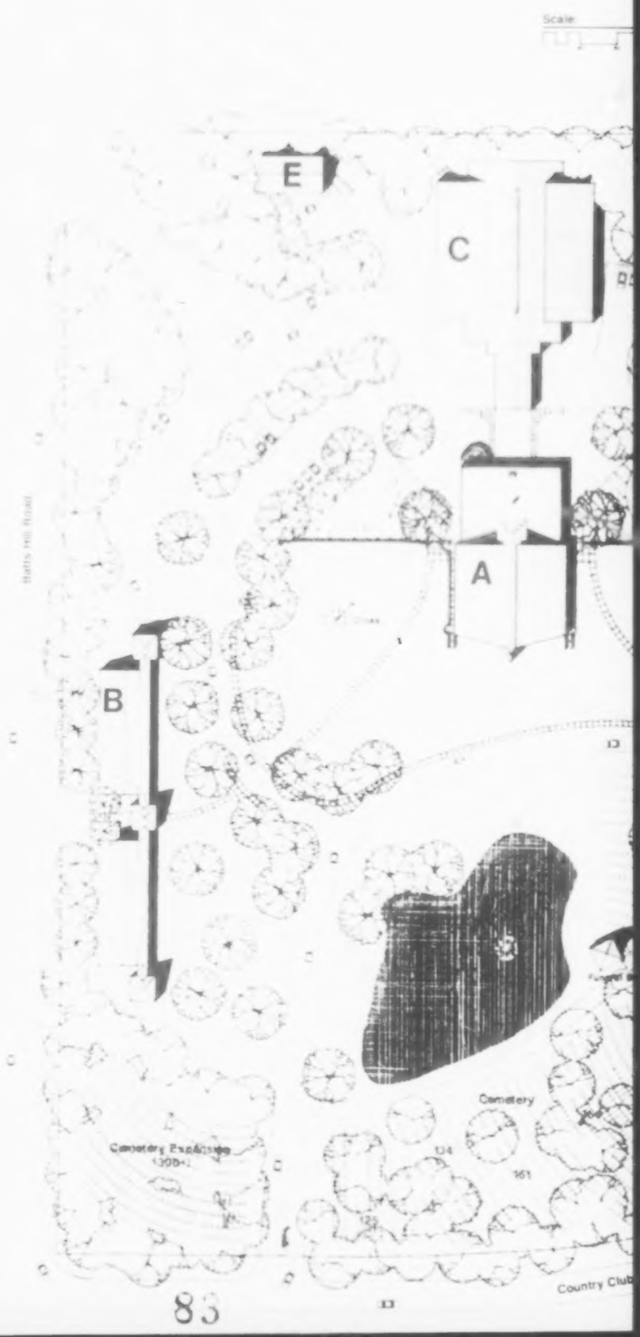
Lee Woodard Elementary

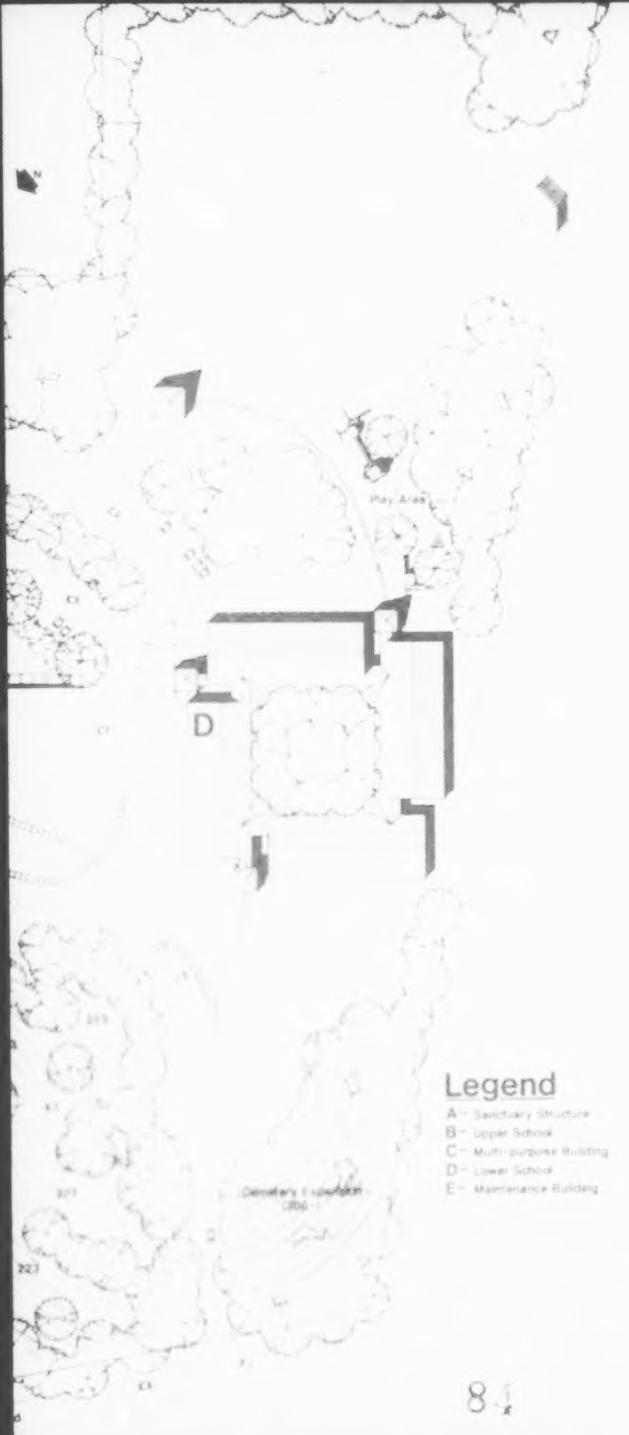
Administrative Unit	Wilson County
Grade Organization	K-5
Approximate Capacity	300
Opening Date	August 1988
Architects	Skinner, Lamm, Hood & Highsmith
Landscape Architect	Lewis Clark Associates
Structural Engineers	Gardner & Associates
Mechanical Engineers	Fenner & Proffitt
Electrical Engineers	Fenner & Proffitt
Square Footage	47,000
Total Cost	$1,959,823
Building Cost Per Square Foot	$41.69

Saint Paul's Parish Center

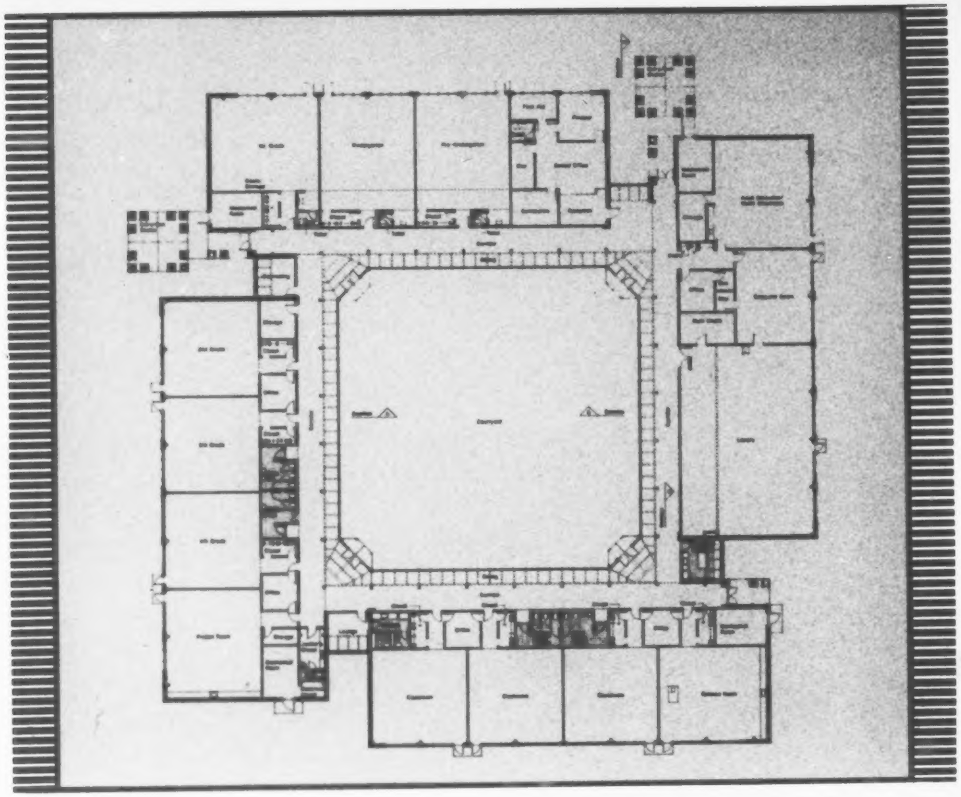




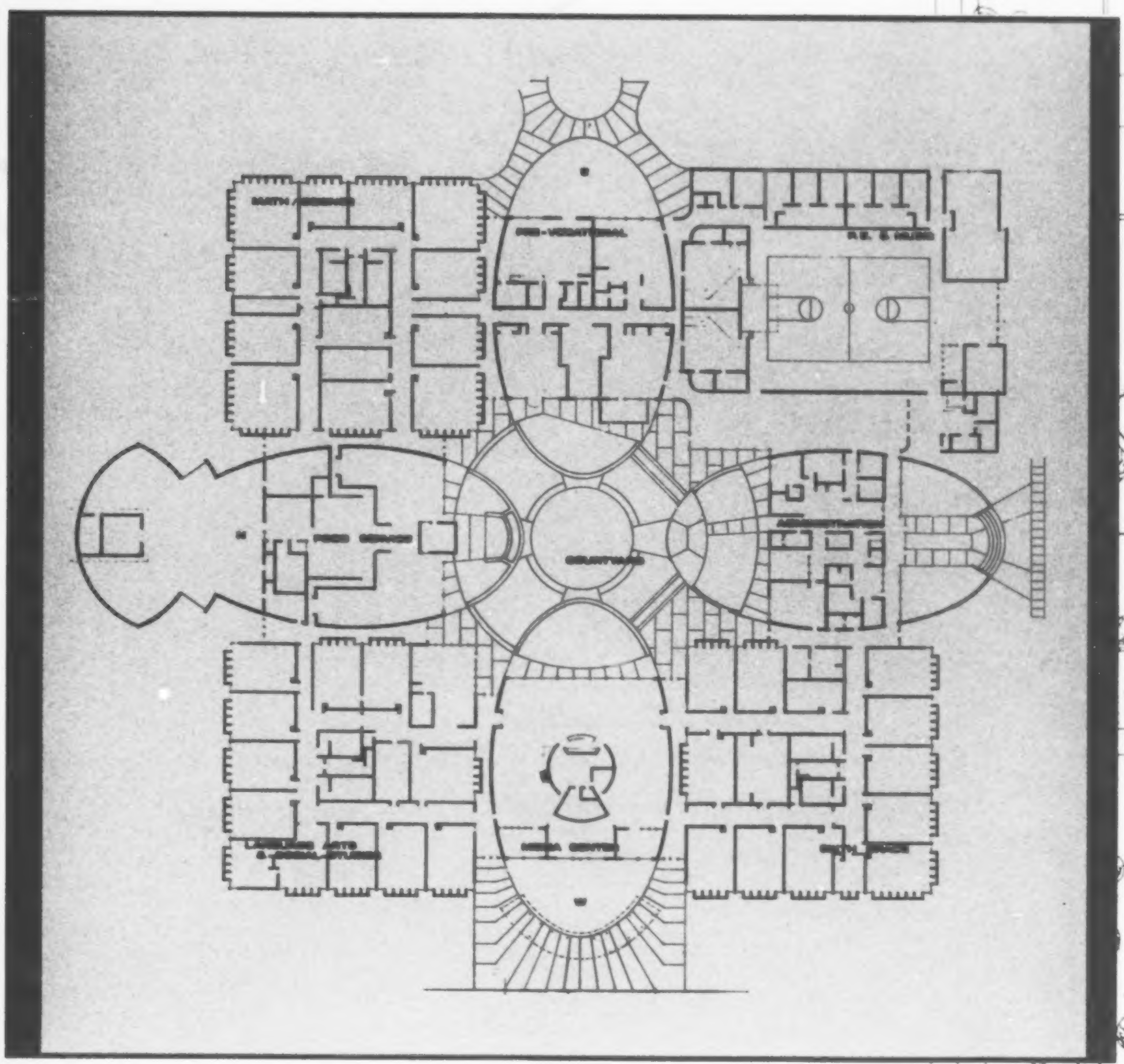




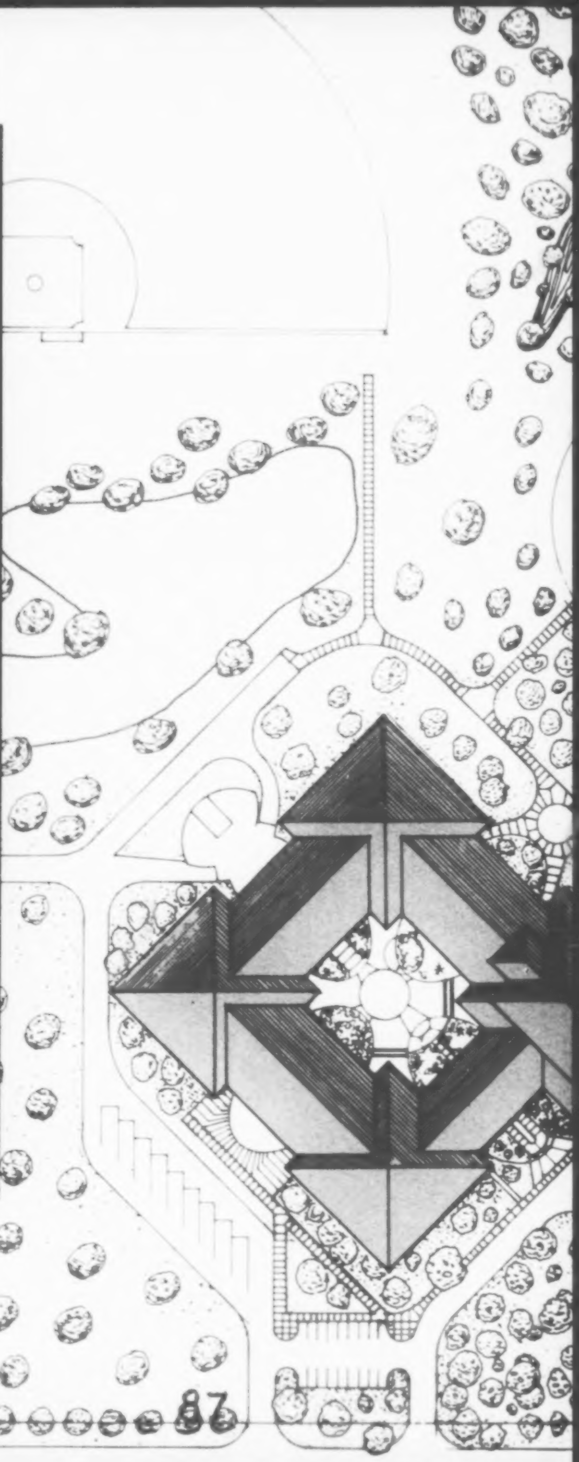
Saint Paul's Parish Center



Administrative Unit	Private School in Craven County
Grade Organization	K-8
Approximate Capacity	300
Opening Date	Fall 1991
Architects	Robert Winston Carr, Inc.
Structural Engineers	Gardner & Associates
Mechanical Engineers	Knott & Roberts
Electrical Engineers	Knott & Roberts
Square Footage	29,891
Total Cost	$2,200,140
Building Cost Per Square Foot	$73.60

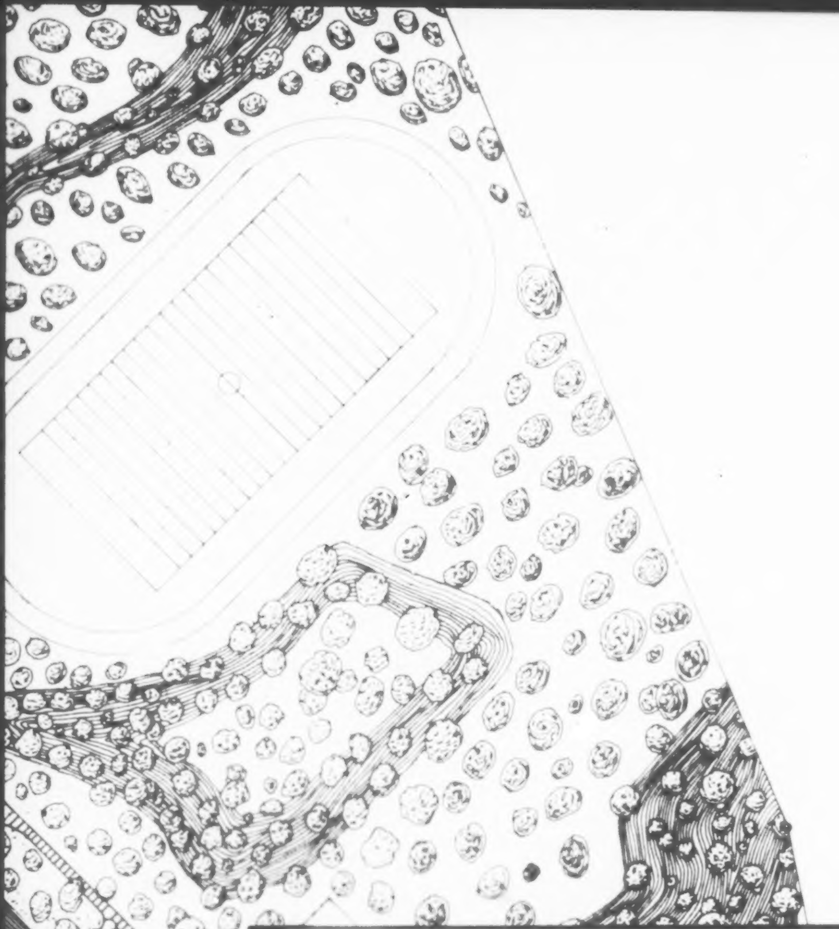

MATH / SCIENCE
PRE-VOCATIONAL
P.E. & MUSIC
FOOD SERVICE
COURTYARD
ADMINISTRATION
LANGUAGE ARTS & SOCIAL STUDIES
MEDIA CENTER

86

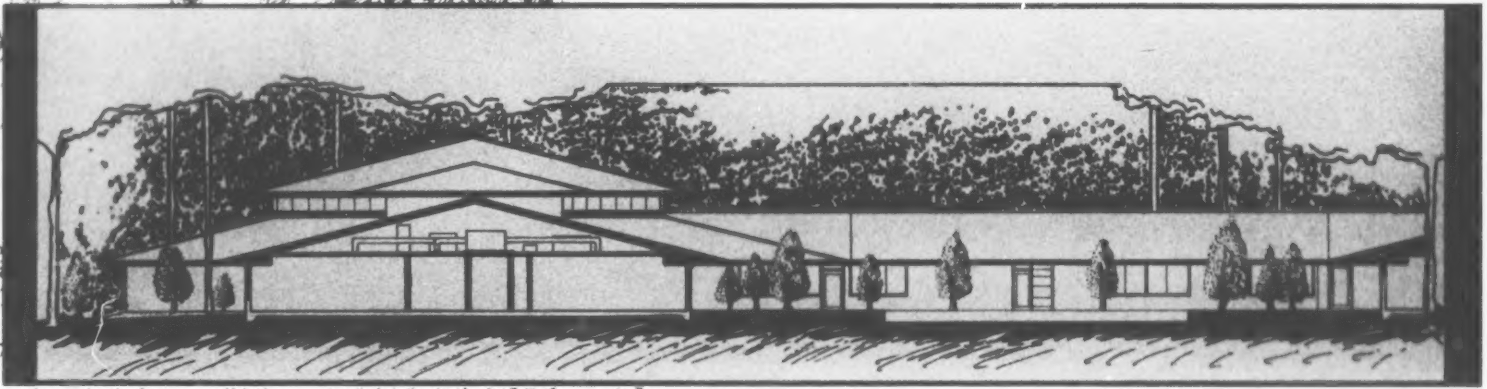


87

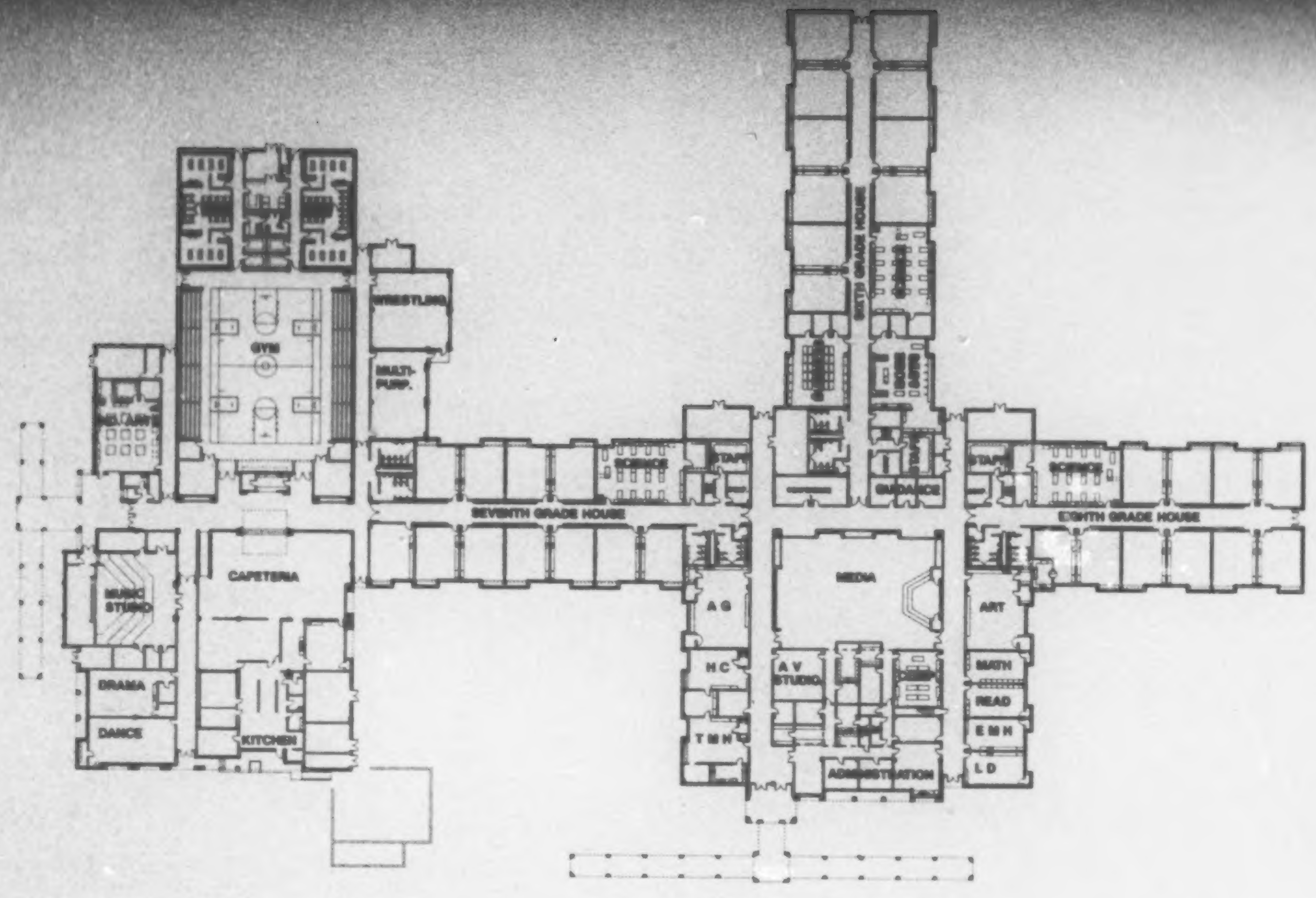
Broad Creek Middle

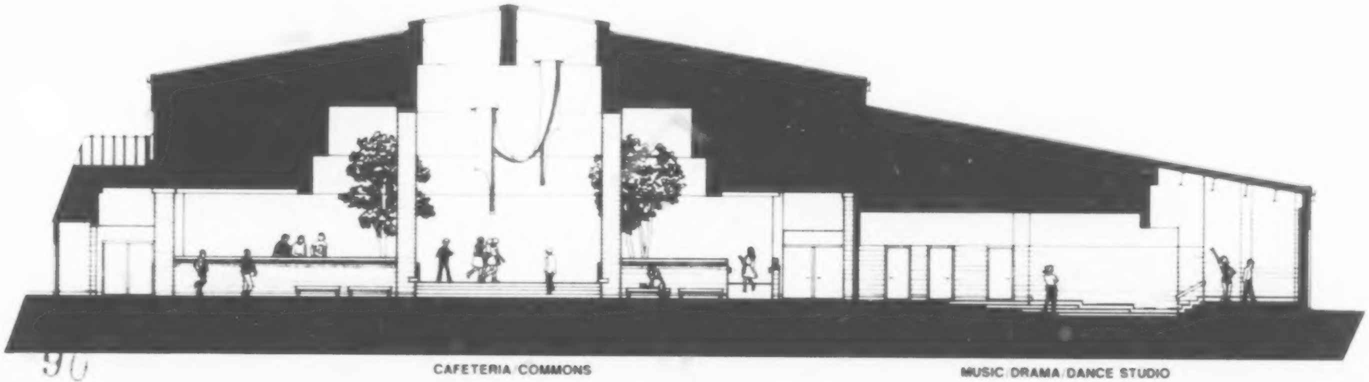


Administrative Unit	Carteret County
Grade Organization	6-8
Approximate Capacity	700
Opening Date	Fall 1988
Architects	James B. Willis
Landscape Architect	Bill Glazer
Structural Engineers	Bigger & Agnew
Mechanical Engineers	Fenner & Proffitt
Electrical Engineers	Fenner & Proffitt
Square Footage	96,000
Total Cost	$6,200,000
Building Cost Per Square Foot	$64.58

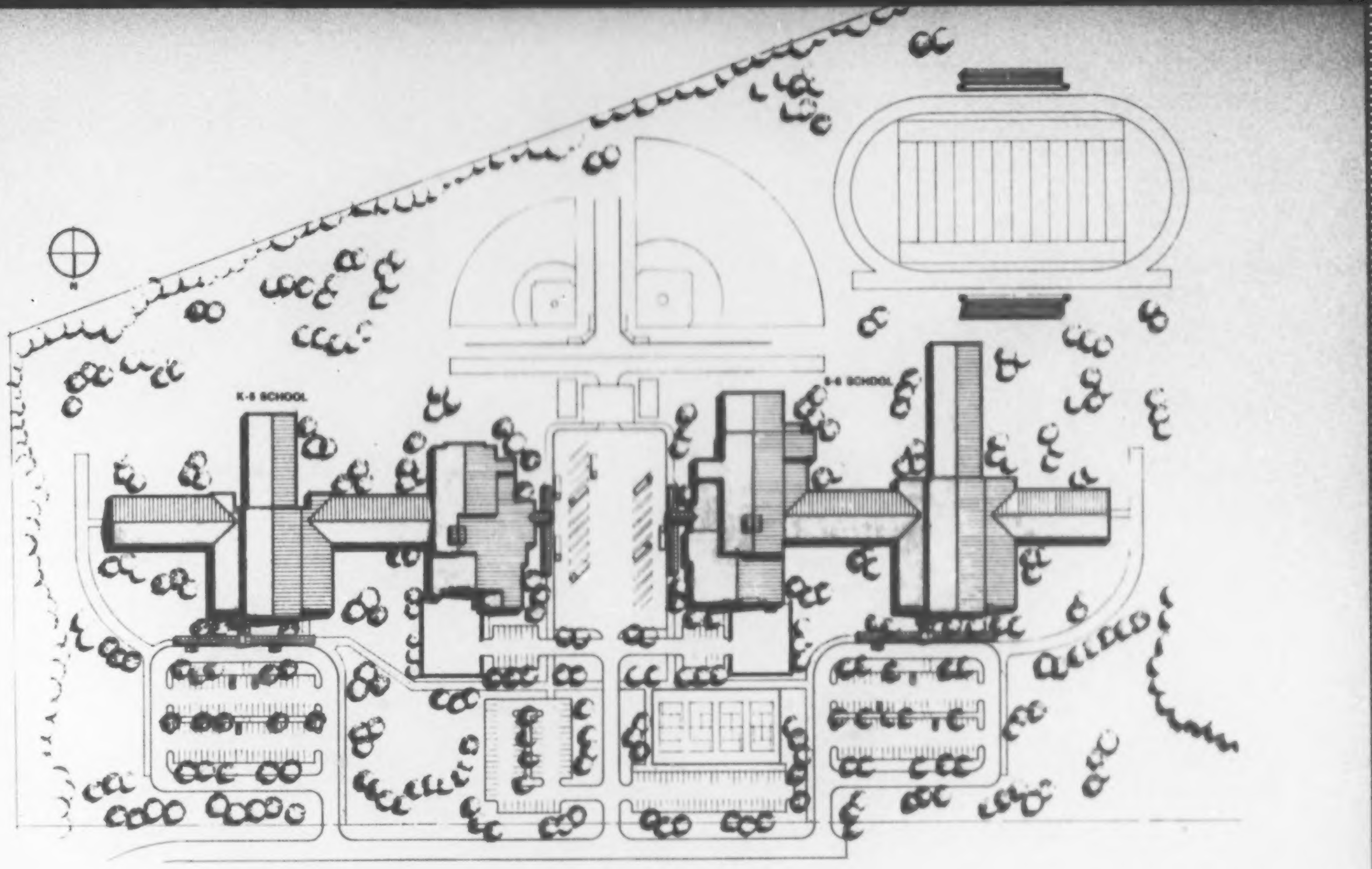


First Flight Middle



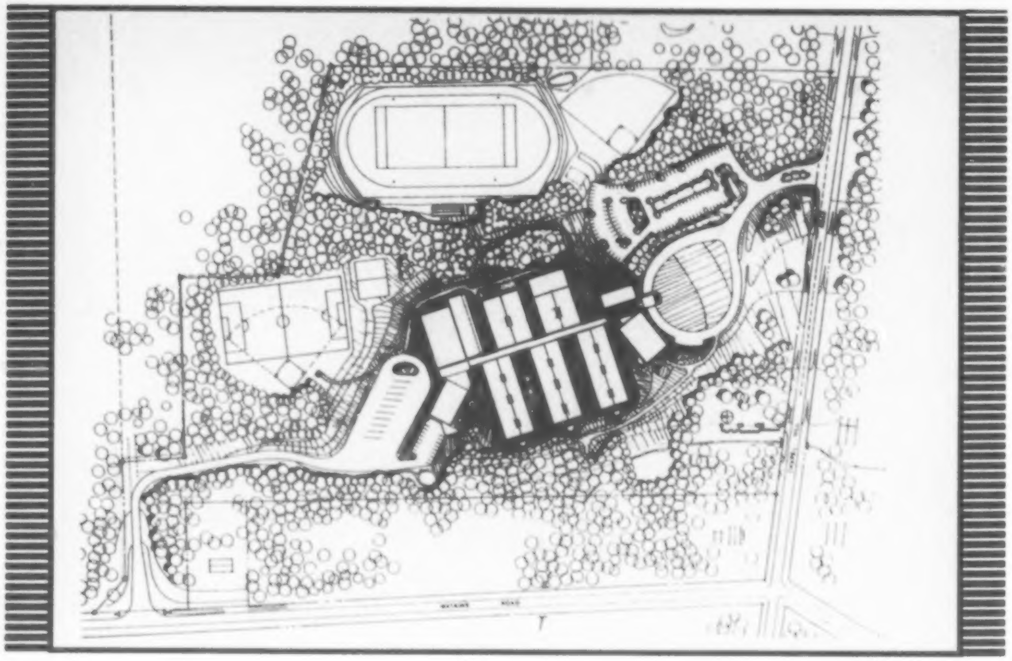


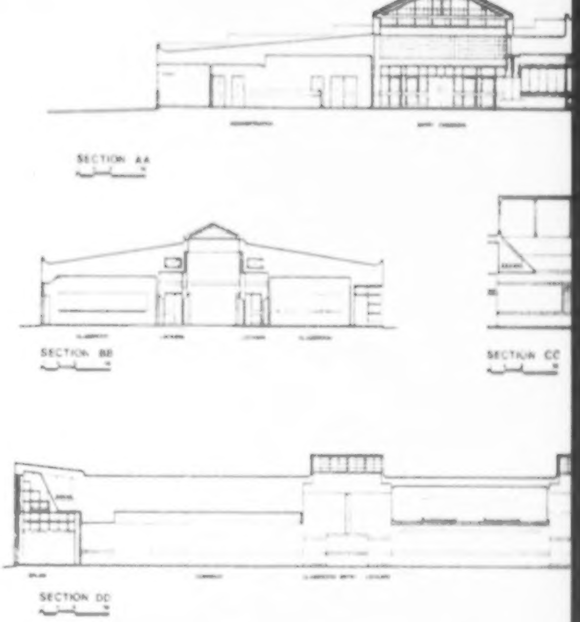
First Flight Middle



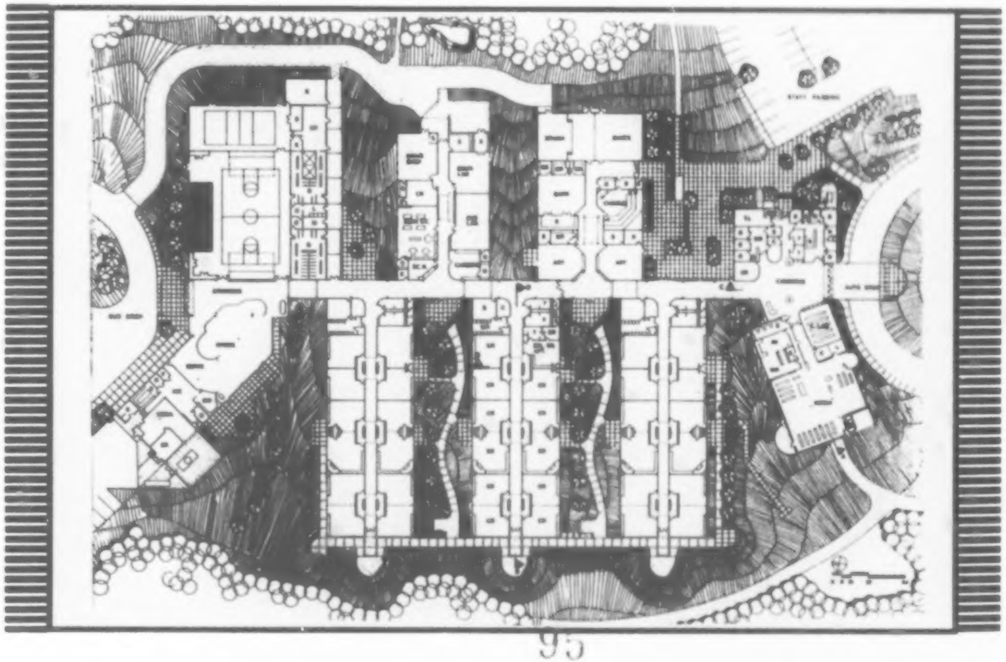
Administrative Unit	Dare County
Grade Organization	6-8
Approximate Capacity	780
Opening Date	Fall 1991
Architects	Doggett Architects, Inc.
Landscape Architect	McKim & Creed
Structural Engineers	G K C Associates
Mechanical Engineers	Douglas Y. Perry Associates
Electrical Engineers	Douglas Y. Perry Associates
Square Footage	129,637
Building Cost	$9,107,424
Building Cost Per Square Foot	$70.25

Githens Middle



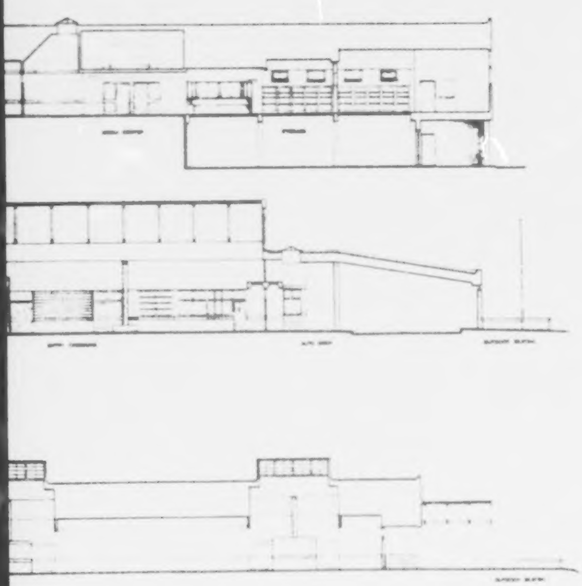


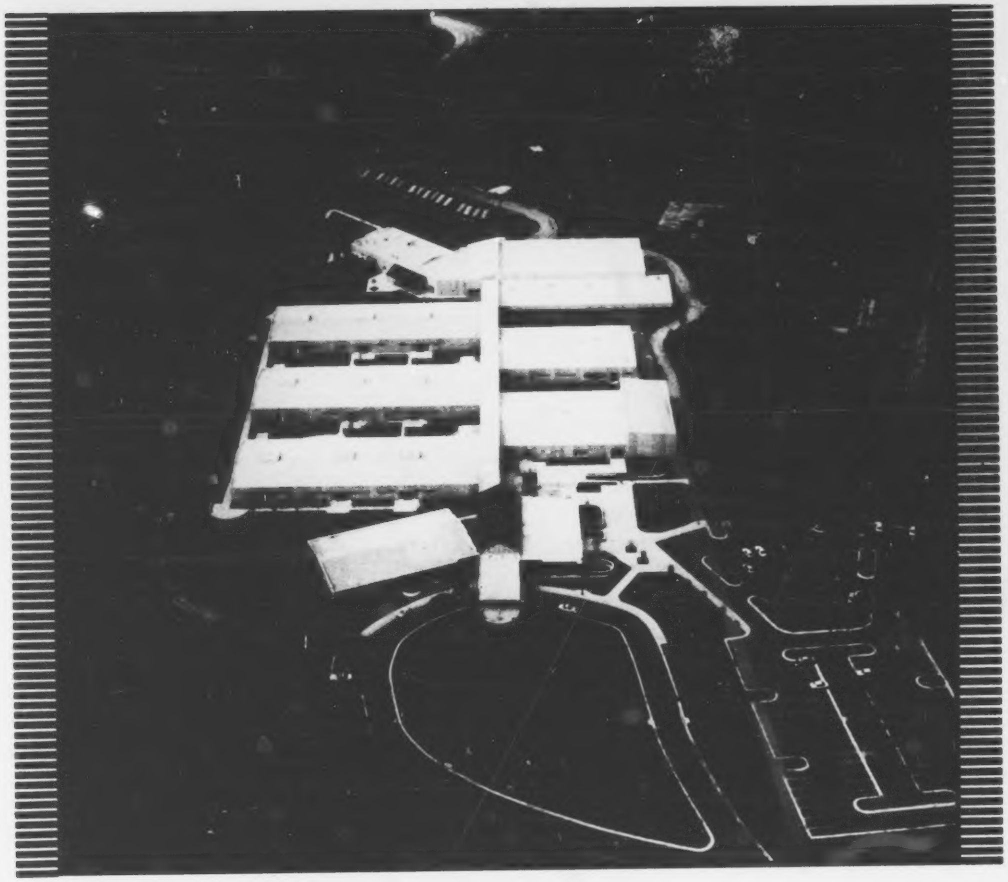
94



95

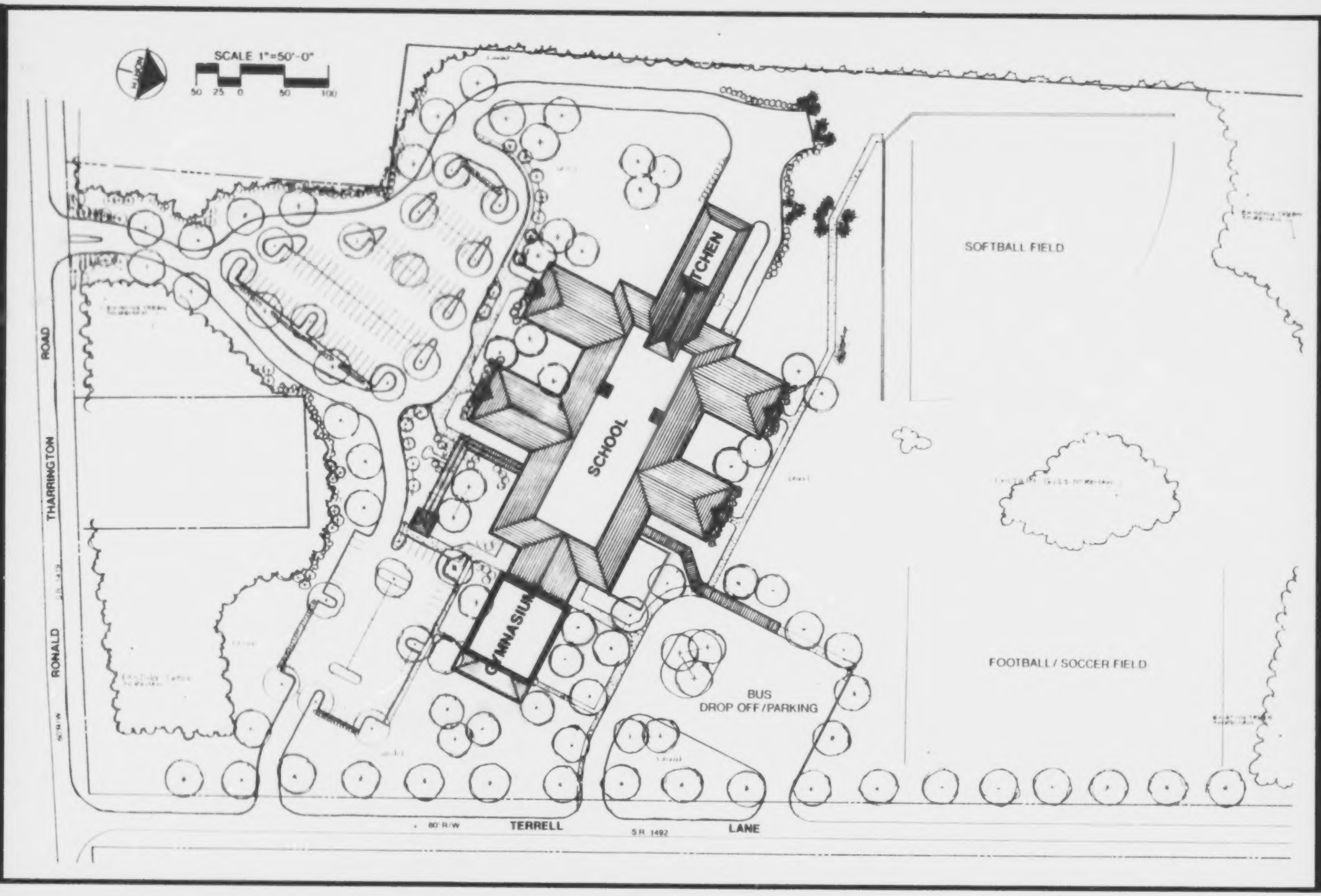
Githens Middle

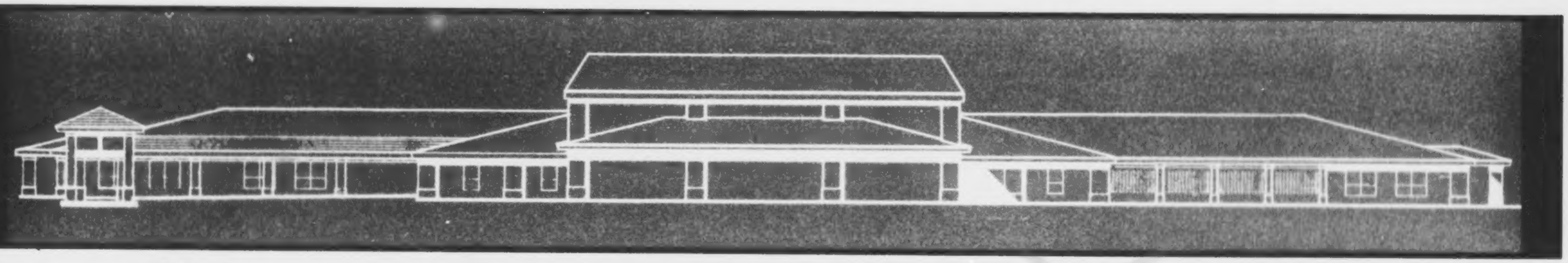




Administrative Unit	Durham County
Grade Organization	6-8
Approximate Capacity	900
Opening Date	September 1988
Architects	DePasquale, Thompson & Wilson
Landscape Architect	Cotter Coulter Associates
Structural Engineers	G K C Associates
Mechanical Engineers	Knott & Roberts
Electrical Engineers	Knott & Roberts
Square Footage	133,000
Total Cost	$10,208,000
Building Cost Per Square Foot	$76.75

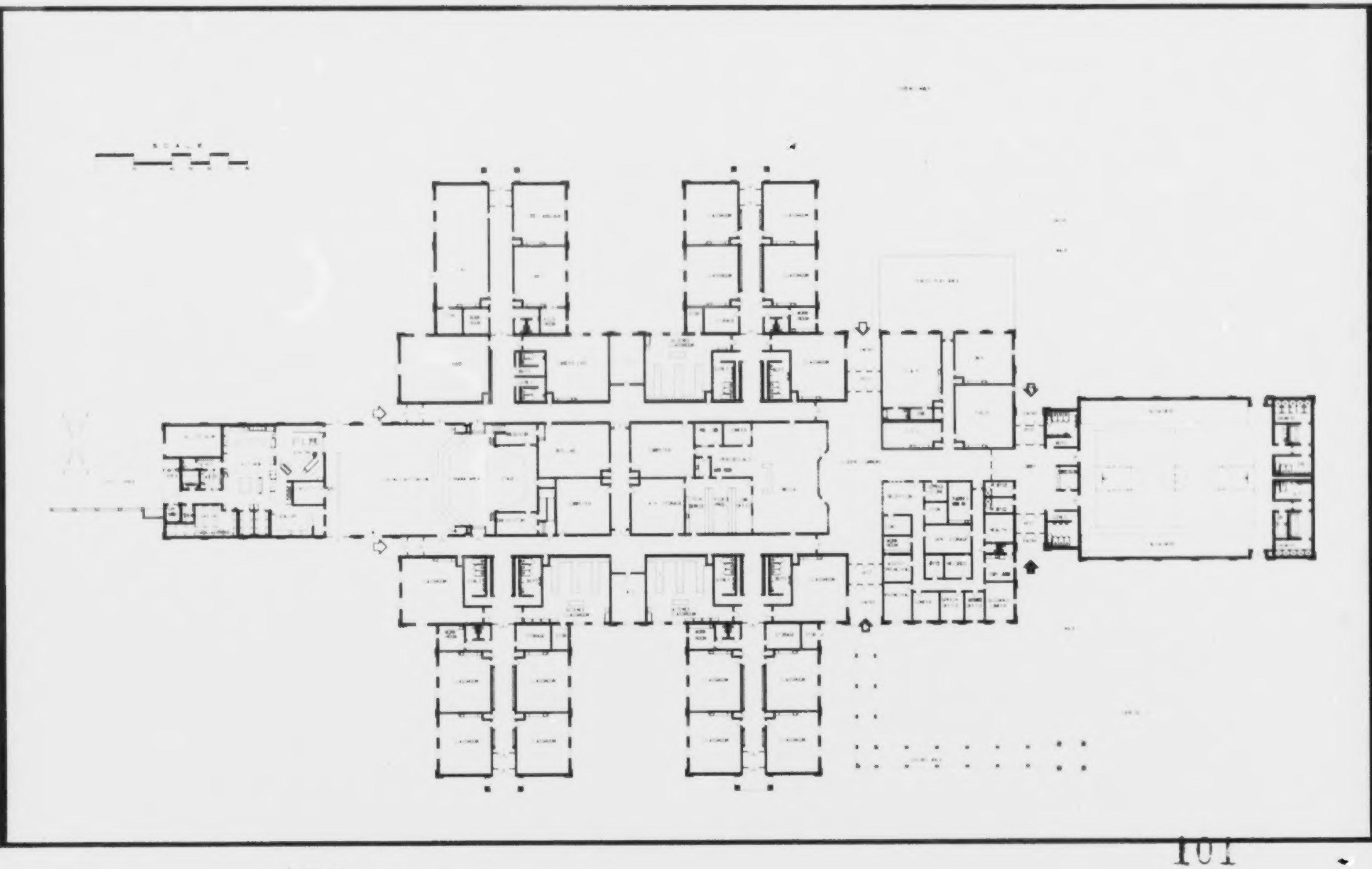
Franklin County Middle





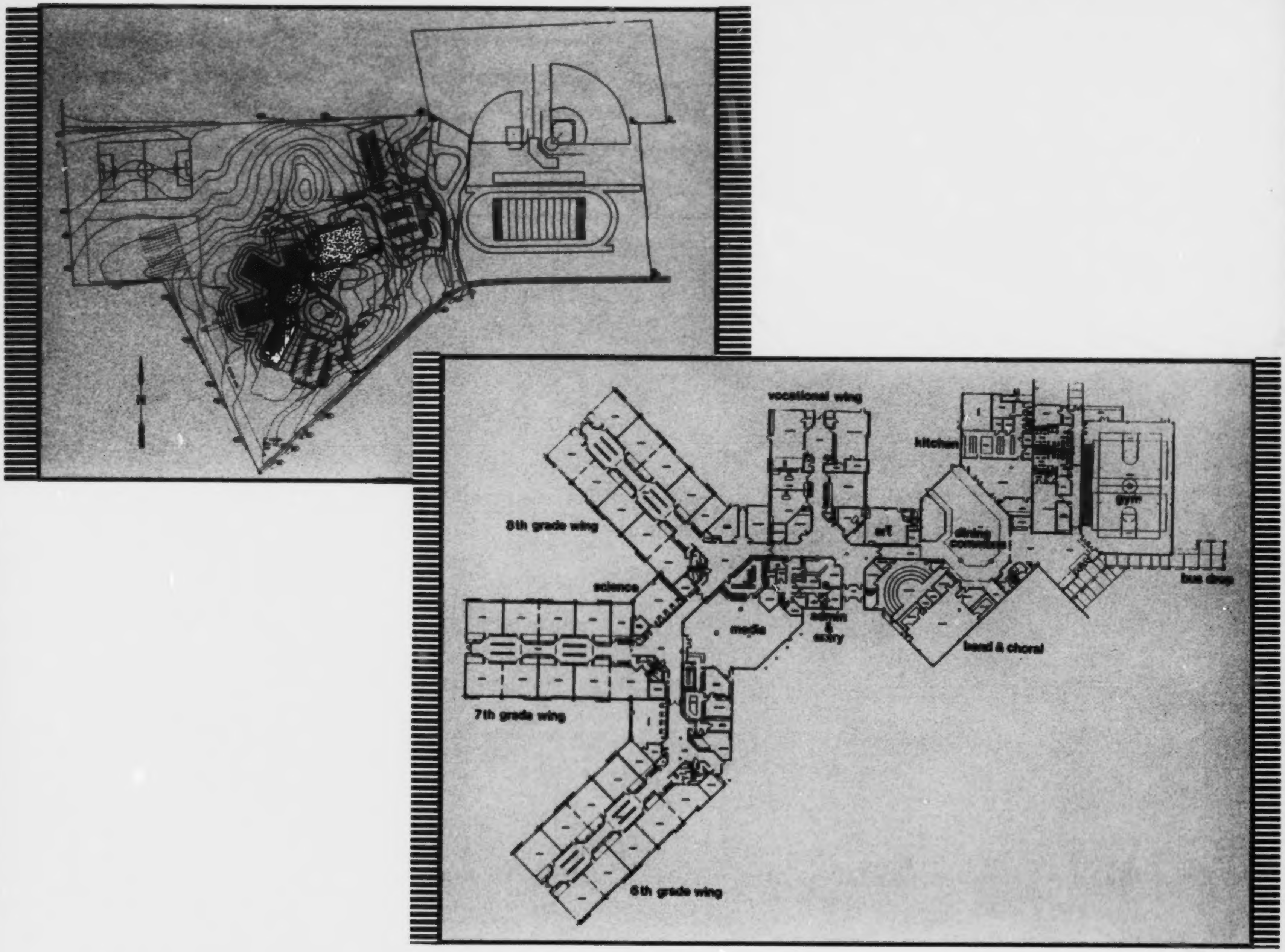
Franklin County Middle

Administrative Unit	Franklin County	Structural Engineers	W. H. Gardner, Jr. and Associates
Grade Organization	6-8	Mechanical Engineers	Bass, Nixon and Kennedy, Inc
Approximate Capacity	550	Electrical Engineers	Bass, Nixon and Kennedy, Inc
Opening Date	Fall 1991	Square Footage	92,360
Architects	Dove-Knight and Associates	Total Cost	$5,500,000
Landscape Architect	Jerry Turner and Associates	Building Cost Per Square Foot	$59.54



101

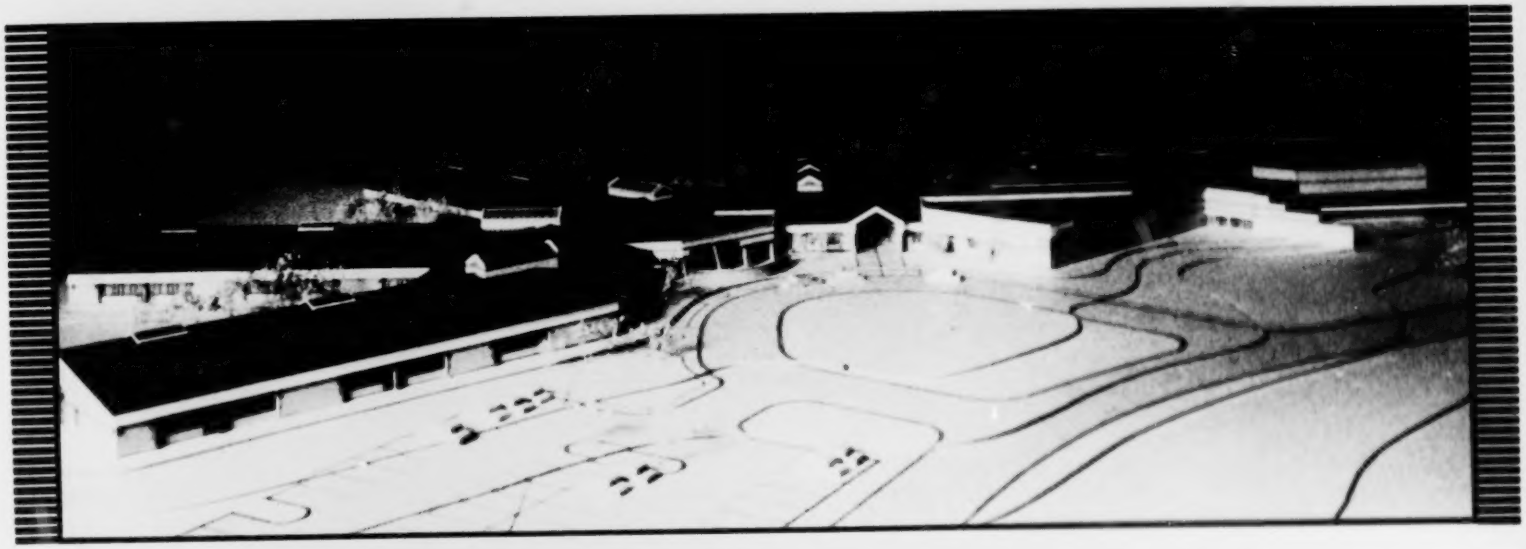
100


vocational wing
kitchen
8th grade wing
art
dining commons
gym
bus drop
science
media
admin & entry
band & choral
7th grade wing
6th grade wing

102

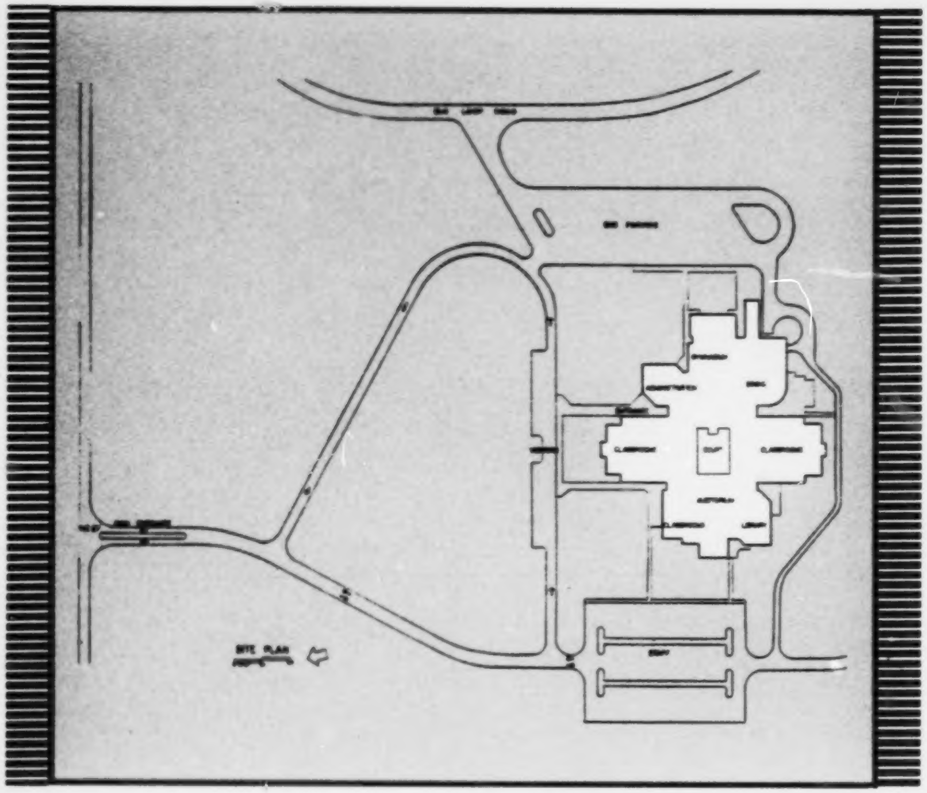
103

Greene County Middle

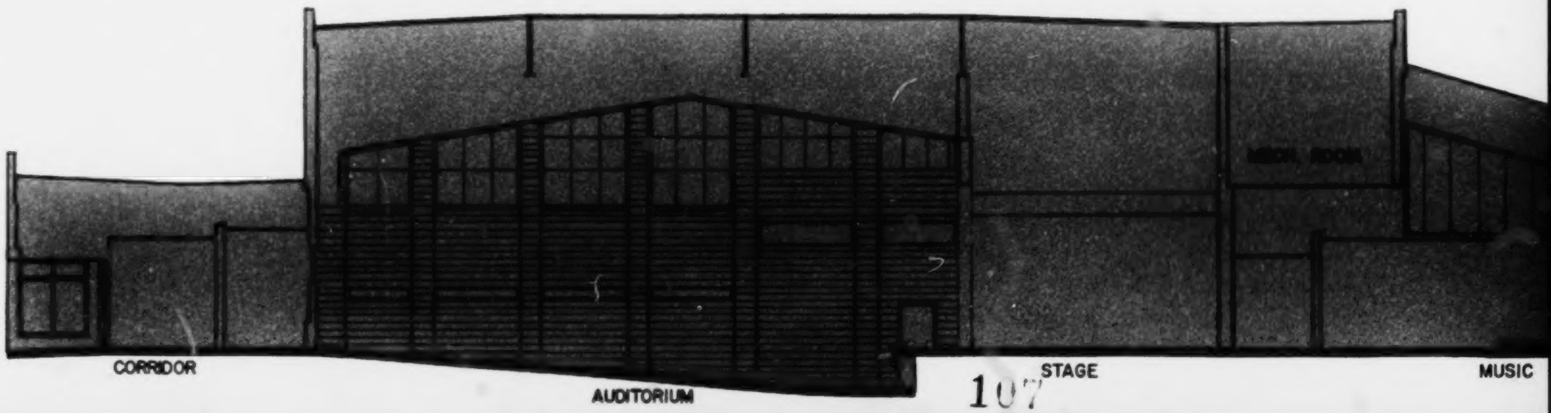


Administrative Unit	Greene County
Grade Organization	6-8
Approximate Capacity	700
Opening Date	January 1991
Architects	The East Group
Landscape Architect	Joel Moulin
Structural Engineers	The East Group
Mechanical Engineers	The East Group
Electrical Engineers	The East Group
Square Footage	93,829
Total Cost	$5,593,579
Building Cost Per Square Foot	$59.61

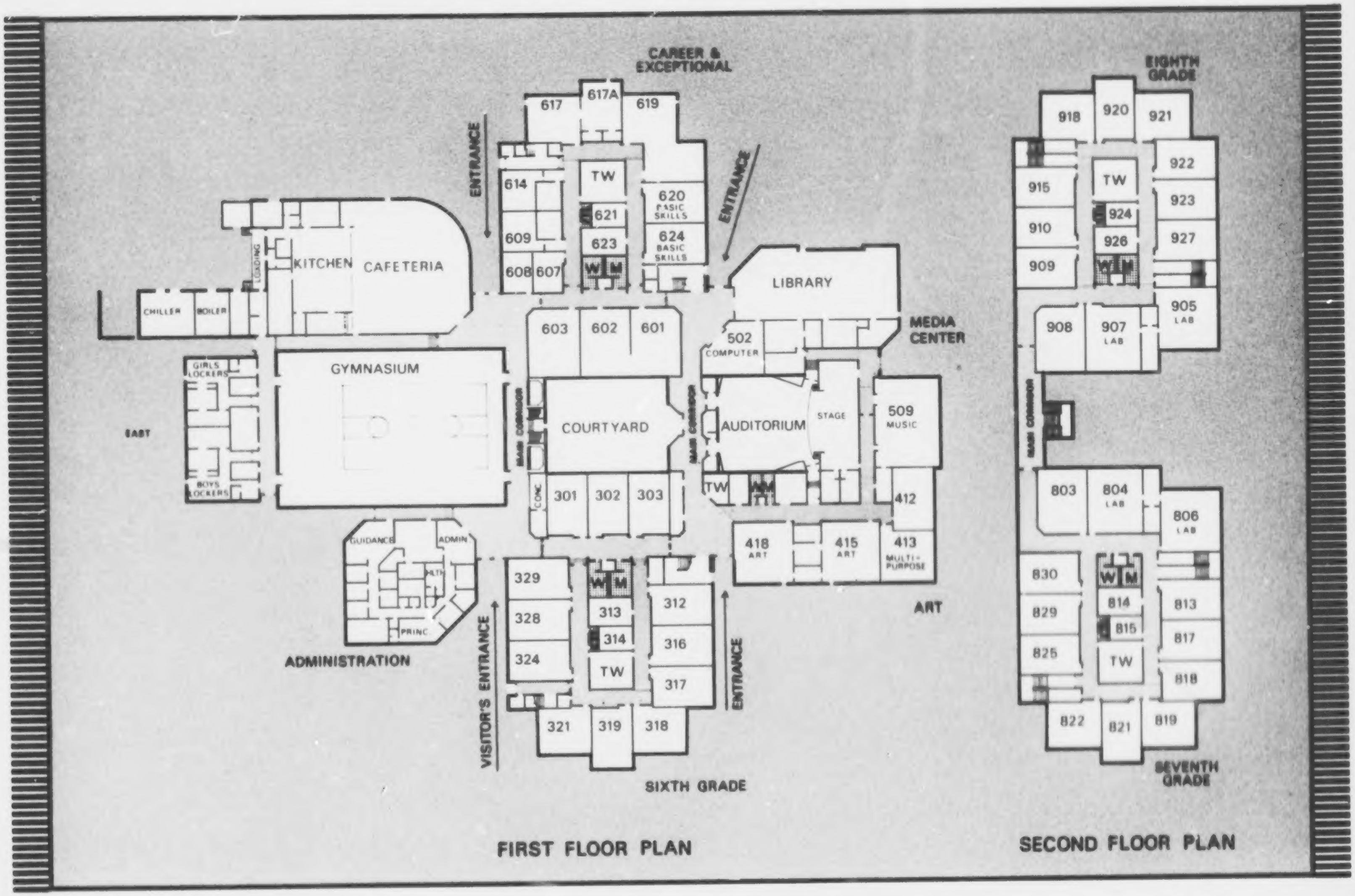
Western Harnett Middle



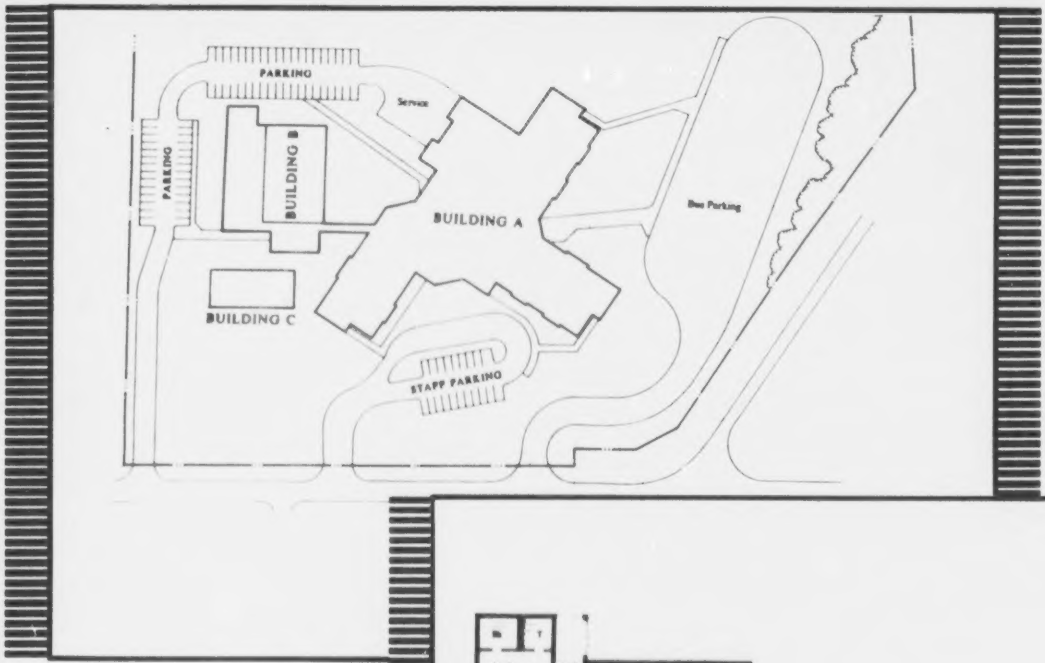
Administrative Unit	Harnett County
Grade Organization	6-8
Approximate Capacity	850
Opening Date	Fall 1990
Architects	MacMillan & MacMillan
Landscape Architect	Ragsdale Consultants
Structural Engineers	Lasater-Hopkins
Mechanical Engineers	Progressive Design Collaborative
Electrical Engineers	Progressive Design Collaborative
Square Footage	145,000
Total Cost	$9,420,000
Building Cost Per Square Foot	$64.96

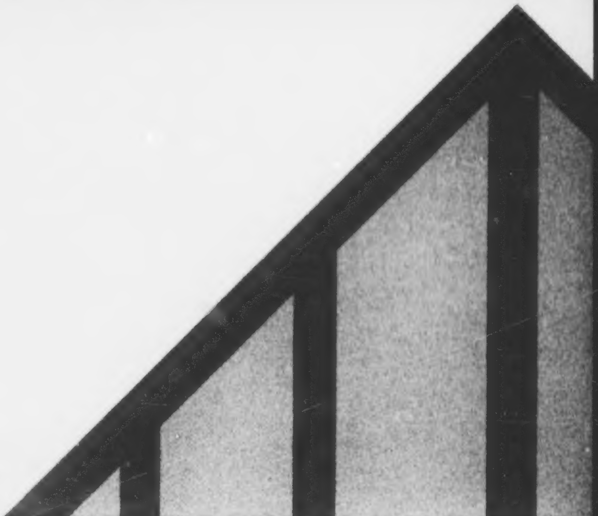


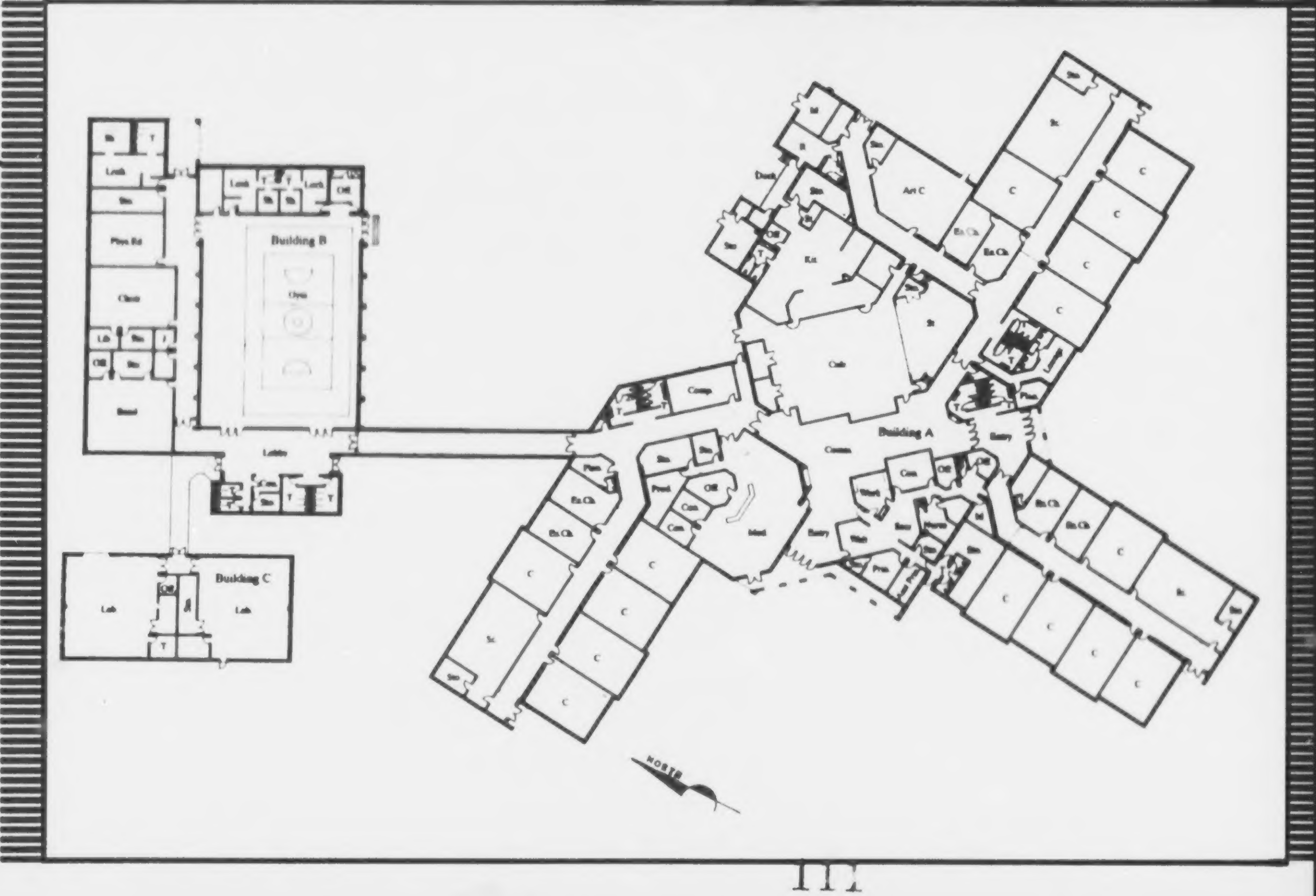
Western Harnett Middle



North Johnston Middle



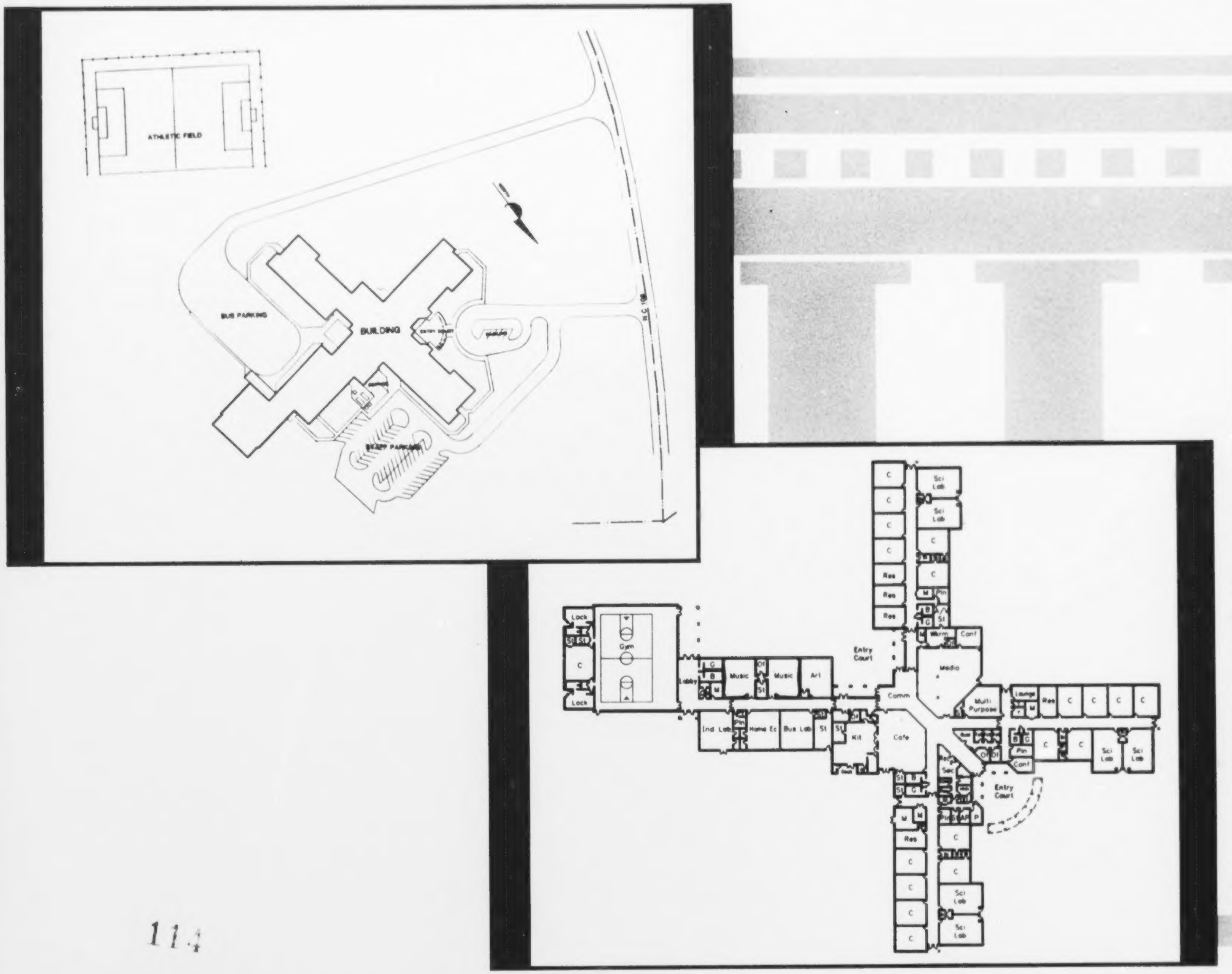




North Johnston Middle

Administrative Unit	Johnston County
Grade Organization	6-8
Approximate Capacity	500
Opening Date	Fall 1989
Architects	Little & Associates
Civil Engineer	Ragsdale Consultants
Structural Engineers	Structural Engineers, Inc.
Mechanical Engineers	Shultz Associates
Electrical Engineers	Steve W. Haas & Associates
Square Footage	73,000
Total Cost	$4,270,850
Building Cost Per Square Foot	$58.50

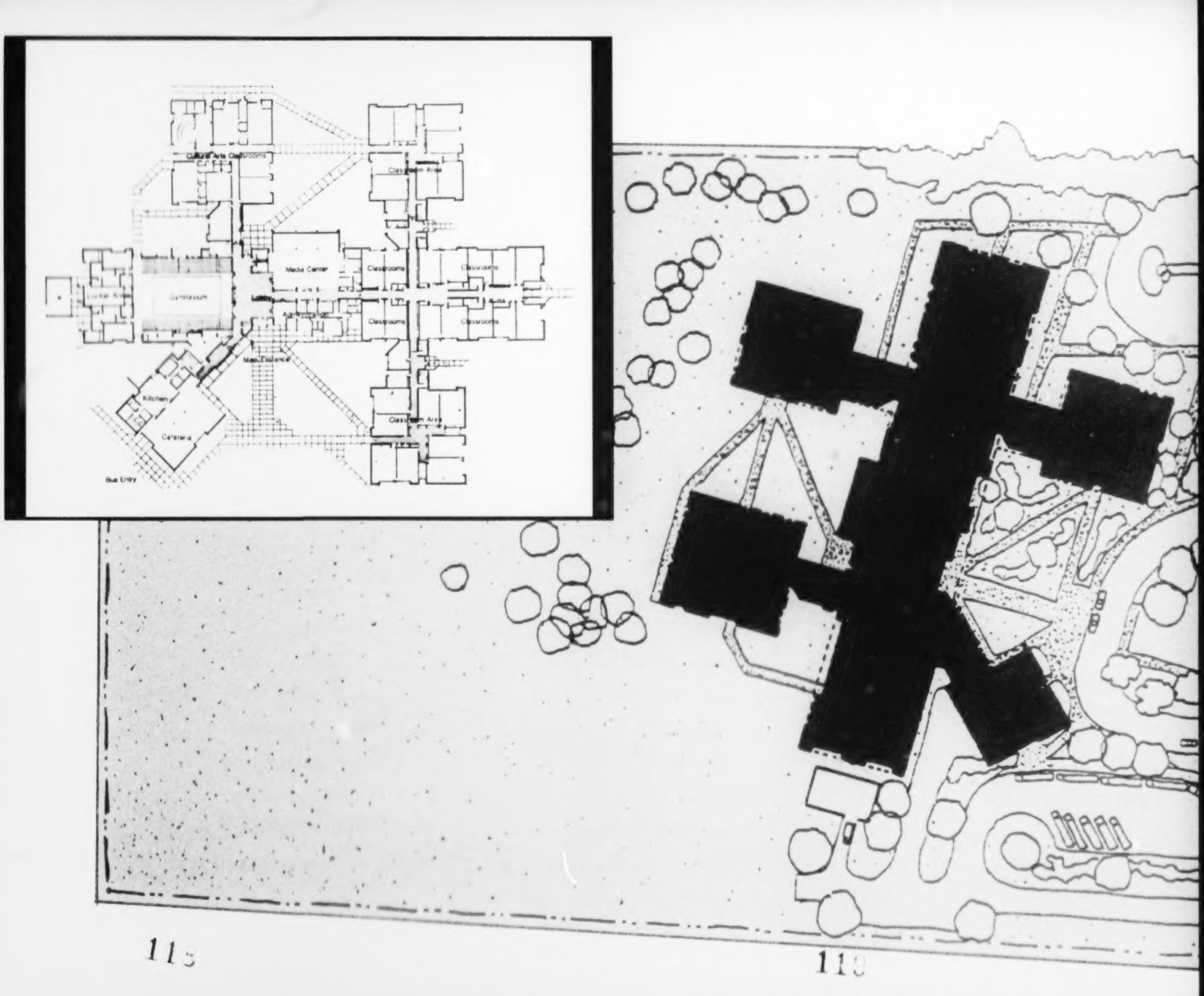
West Montgomery Middle



West Montgomery Middle

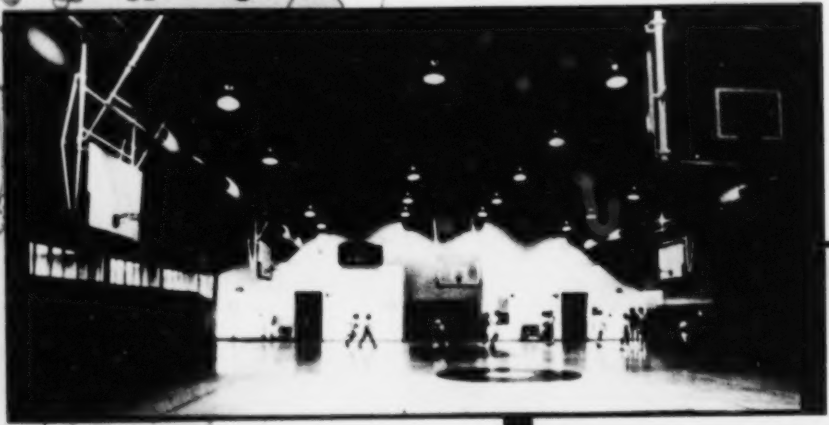
Administrative Unit	Montgomery County
Grade Organization	6-8
Approximate Capacity	750
Opening Date	Fall 1990
Architects	Little & Associates
Landscape Architect	Zimmerman Lindberg
Structural Engineers	V. H. Patel Associates
Mechanical Engineers	Schultz Associates
Electrical Engineers	Steve W. Haas & Associates
Square Footage	81,630
Total Cost	$4,772,219

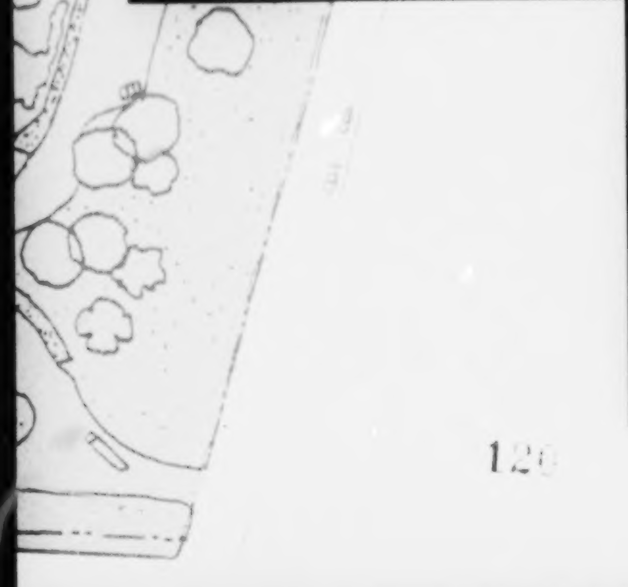
Myrtle Grove Middle



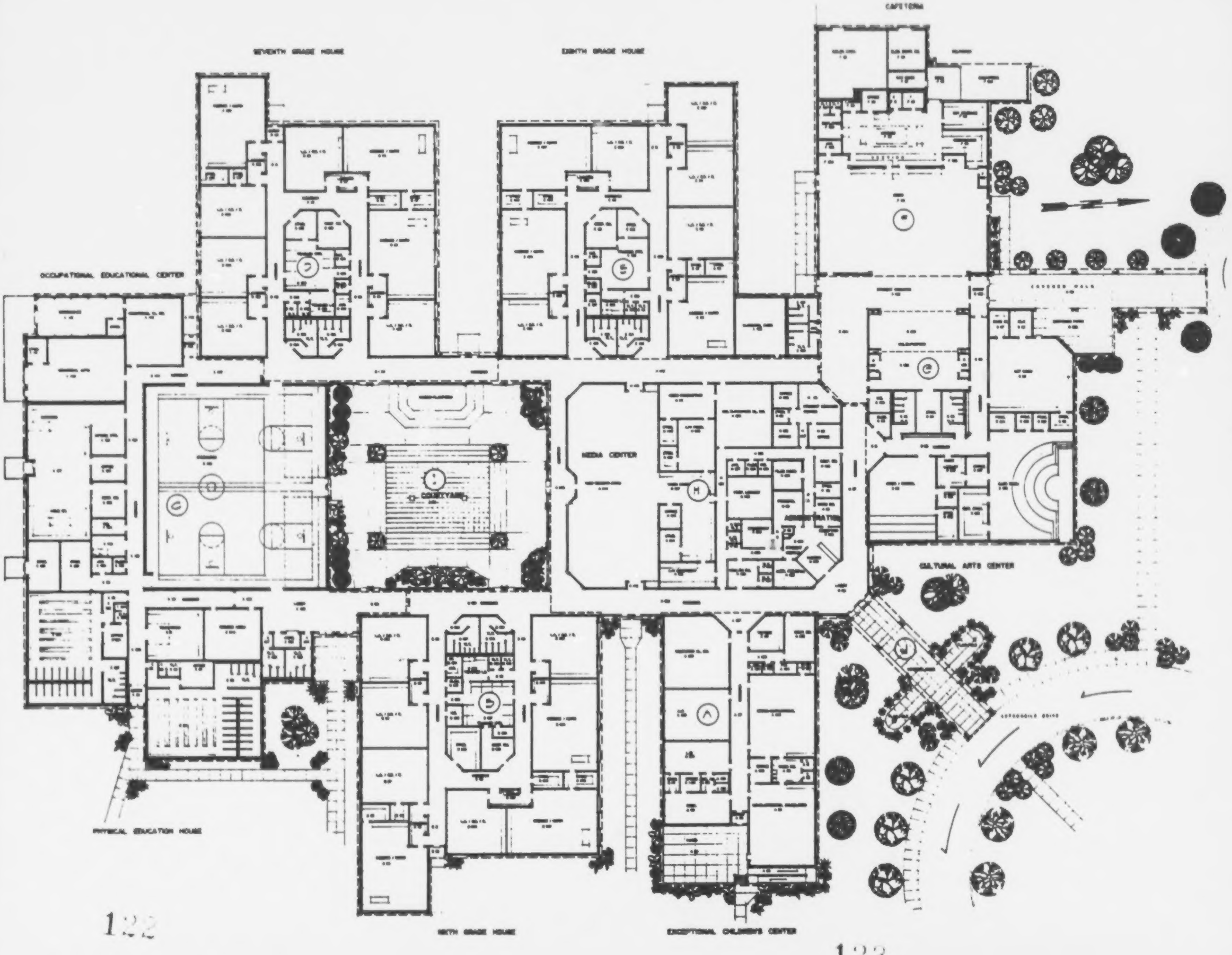
Myrtle Grove Middle

Administrative Unit	New Hanover County
Grade Organization	6-8
Approximate Capacity	900
Opening Date	August 1988
Architects	Boney Architects, Inc.
Structural Engineers	McKim & Creed
Mechanical Engineers	McKim & Creed
Electrical Engineers	William B. Leland
Square Footage	92,000
Total Cost	$4,863,310
Building Cost Per Square Foot	$52.86



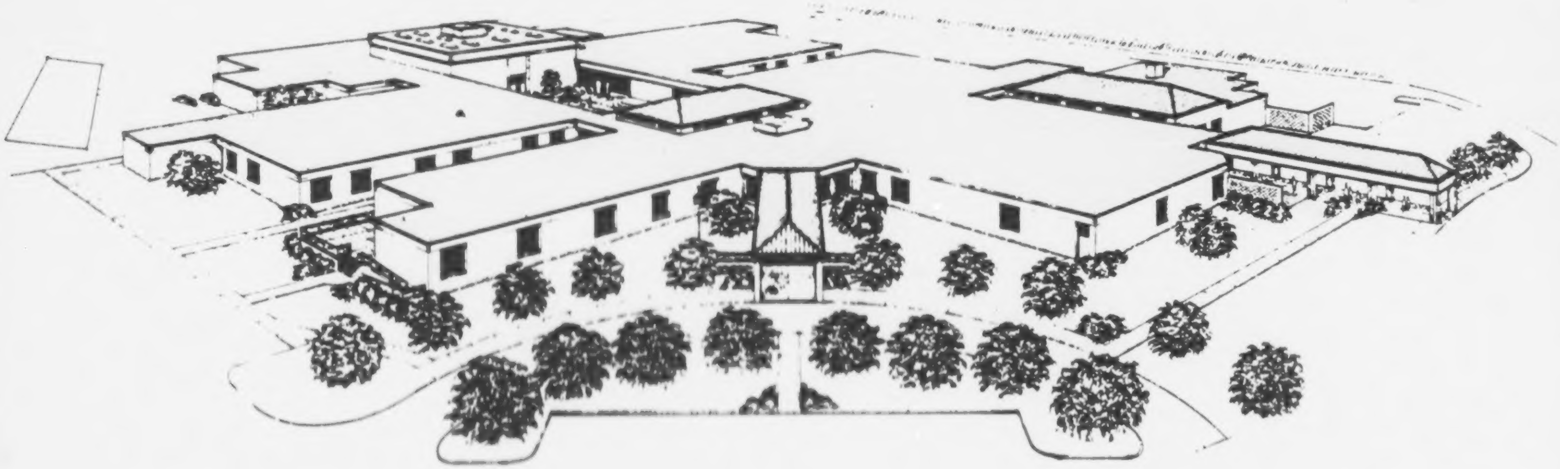


Southwestern Randolph Middle

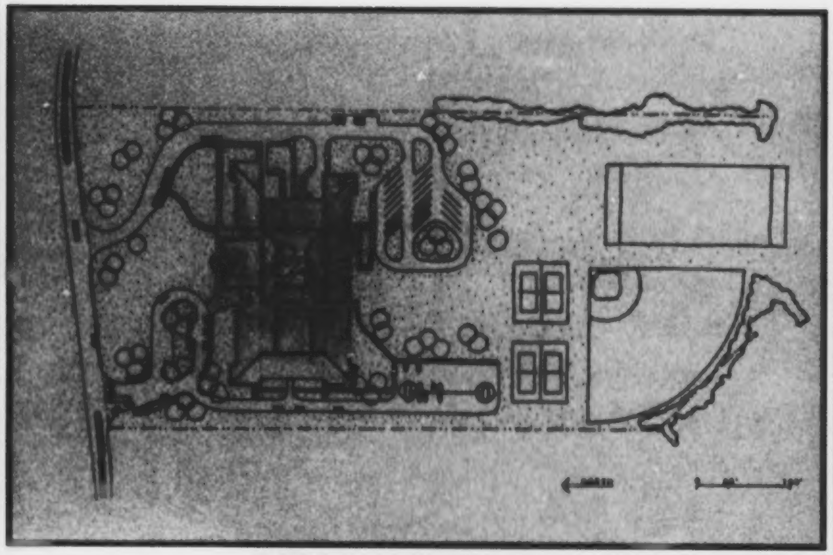


Southwestern Randolph Middle

Administrative Unit	Randolph County
Grade Organization	6-8
Approximate Capacity	700
Opening Date	Fall 1990
Architects	Dean L. Spinks
Landscape Architect	In House
Structural Engineers	Sutton-Kennerly & Associates
Mechanical & Electrical Engineers	Jack C. Dillard
Square Footage	170,000
Total Cost	$7,200,000
Building Cost Per Square Foot	$42.35



Central Area Middle



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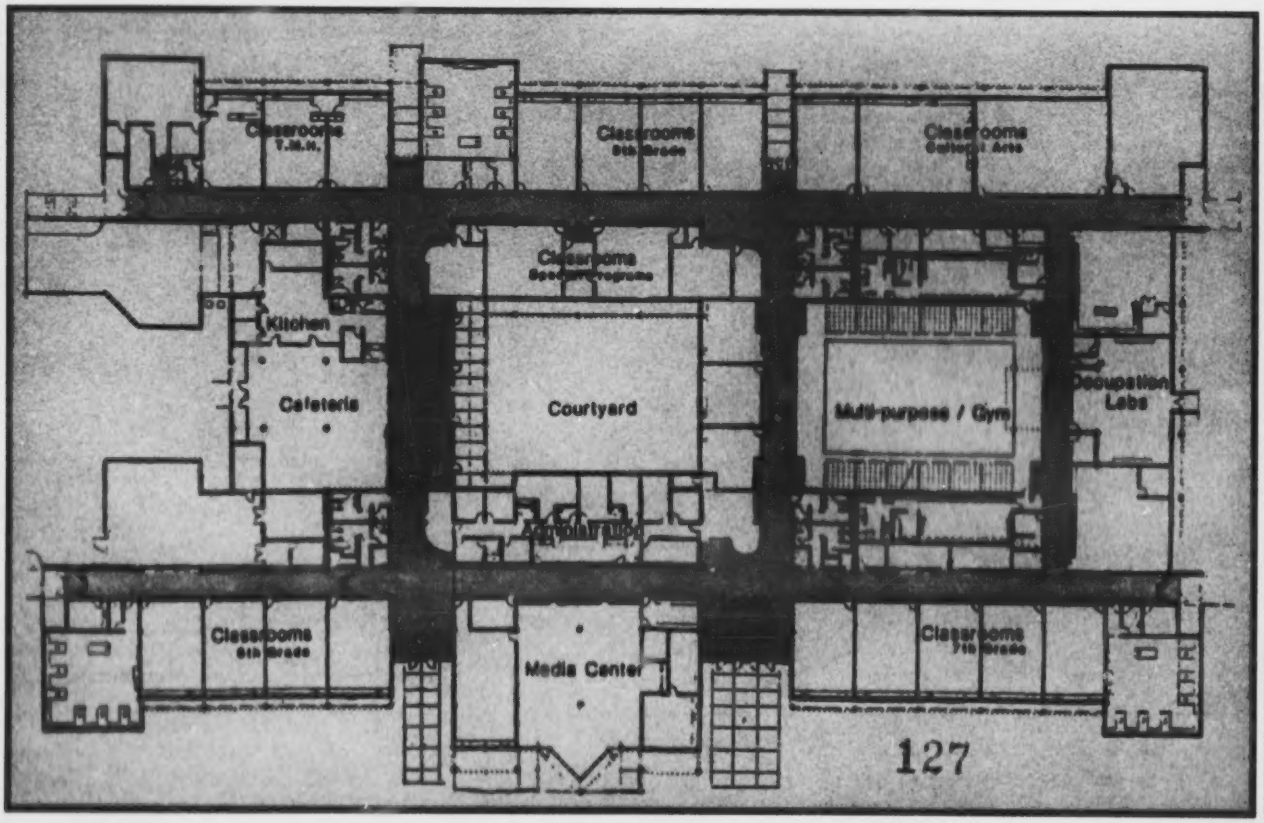

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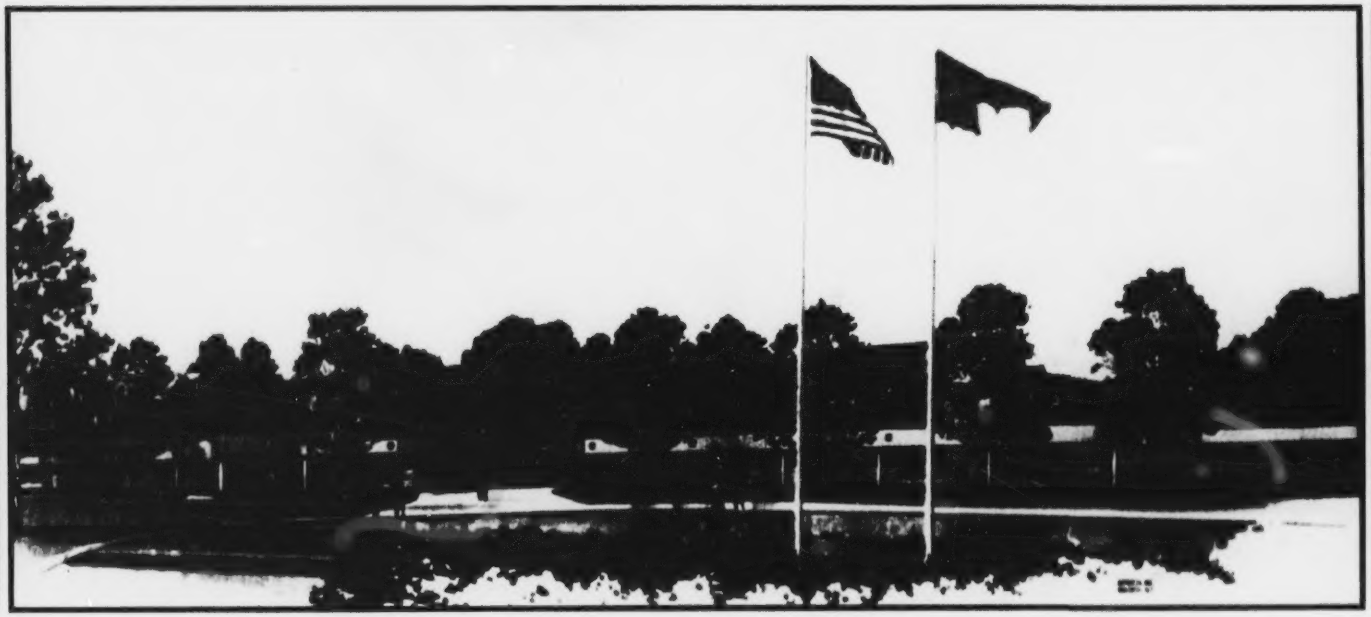
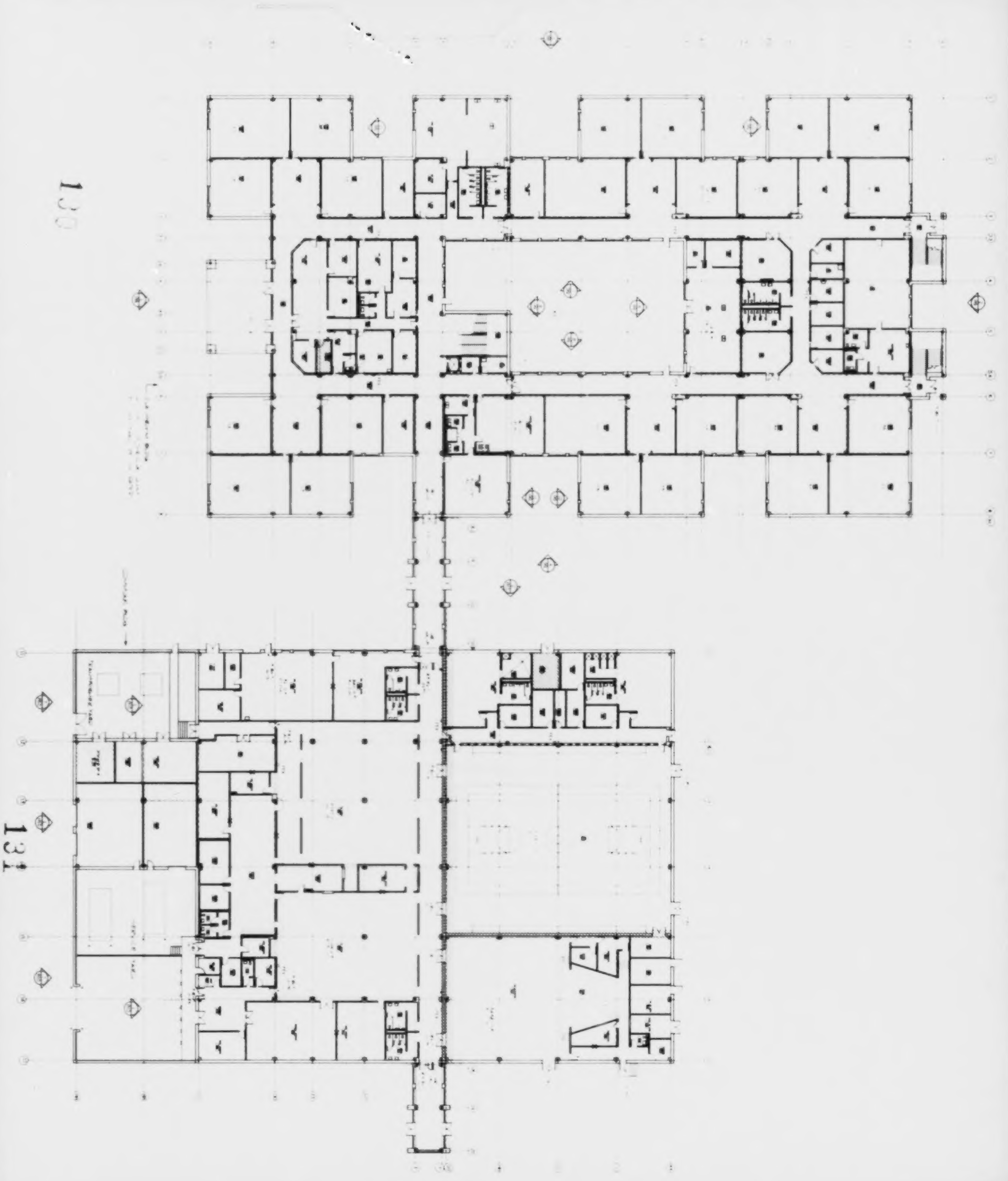
Central Area Middle



Administrative Unit	Surry County
Grade Organization	6-8
Approximate Capacity	500
Opening Date	August 1990
Architects	Boney Architects, Inc.
Landscape Architect	LandDesign Services
Structural Engineers	Henry Von Oesen & Associates
Mechanical Engineers	McKim & Creed
Electrical Engineers	William B. Leland
Square Footage	86,000
Total Cost	$5,915,218
Building Cost Per Square Foot	$68.78

Leesville Road Middle



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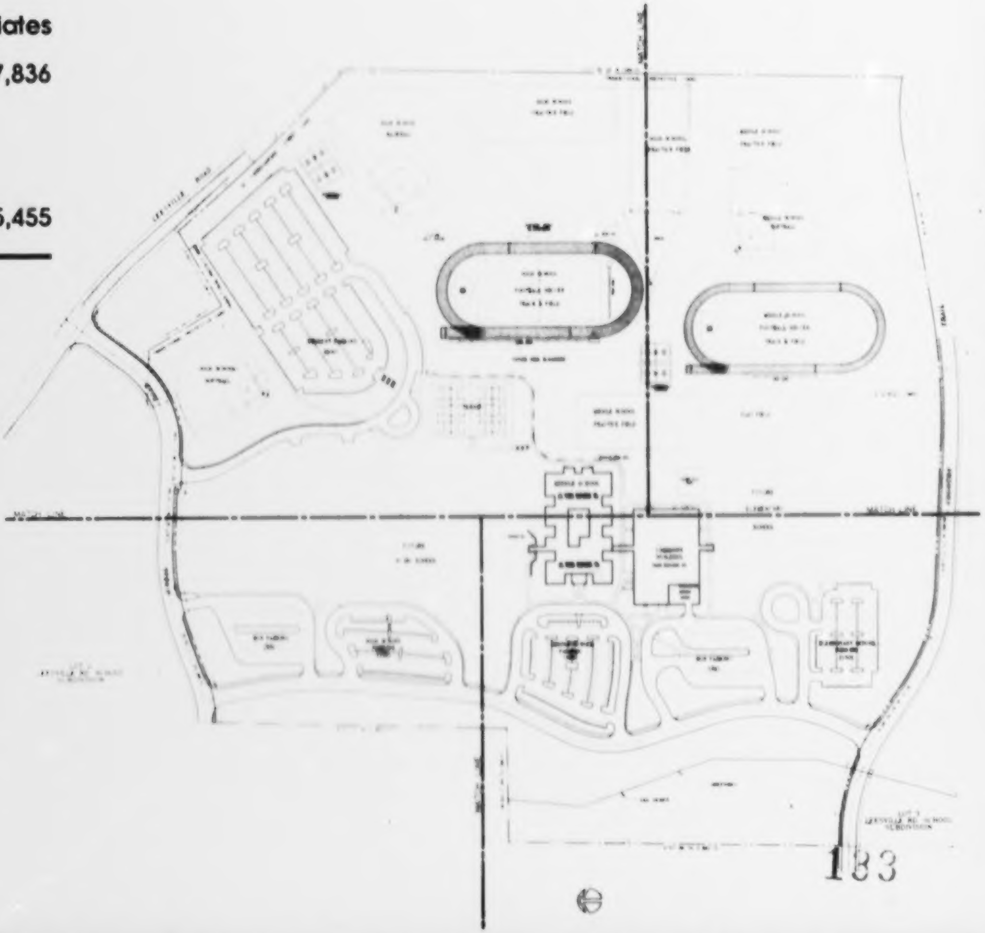
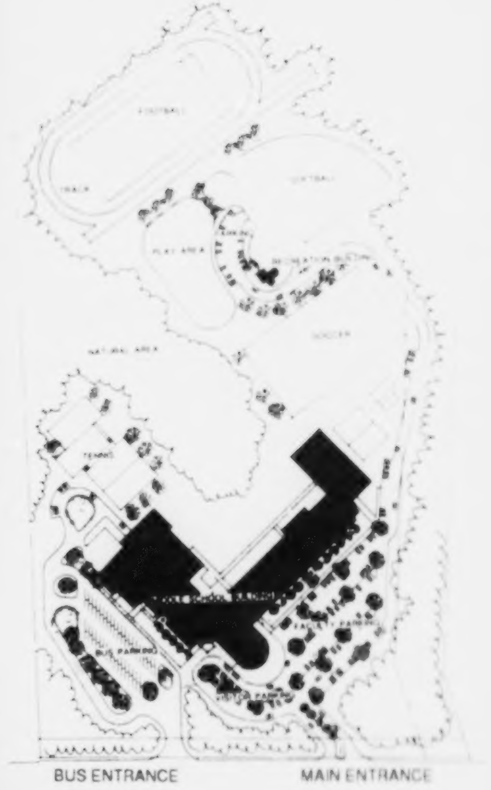
131

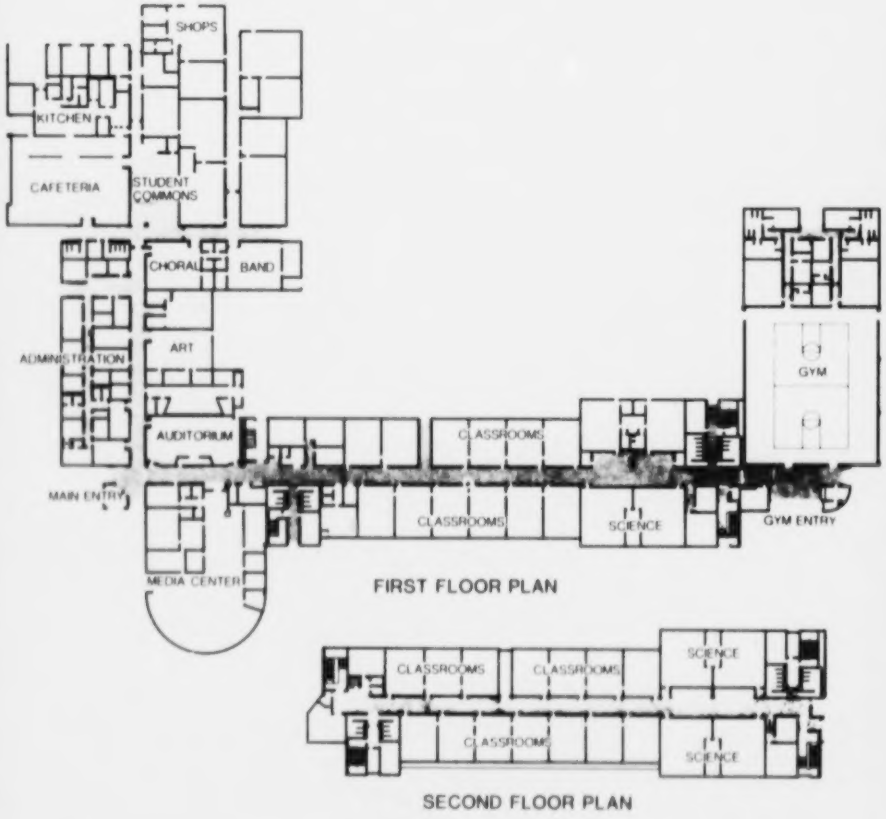
Leesville Road Middle

Administrative Unit	**Wake County**
Grade Organization	**K-5, 6-8, 9-12**
Approximate Capacity	**3,200**
Elem 600 Middle 1,000 High 1,600	
Opening Date	**Elem 1992, Middle 1991, High 1993**
Architects	**Milton Small**
Landscape Architect	**William G. Daniel & Associates**
Structural Engineers	**Lasater-Hopkins**
Mechanical Engineers	**Lasater-Hopkins**
Electrical Engineers	**Douglas Y. Perry Associates**
Square Footage	**427,836**
Elem 57,683 Middle 138,170 High 231,983	
Each component includes shared facilities	
Total Construction Budget	**$33,085,455**



Wake Forest - Rolesville Middle

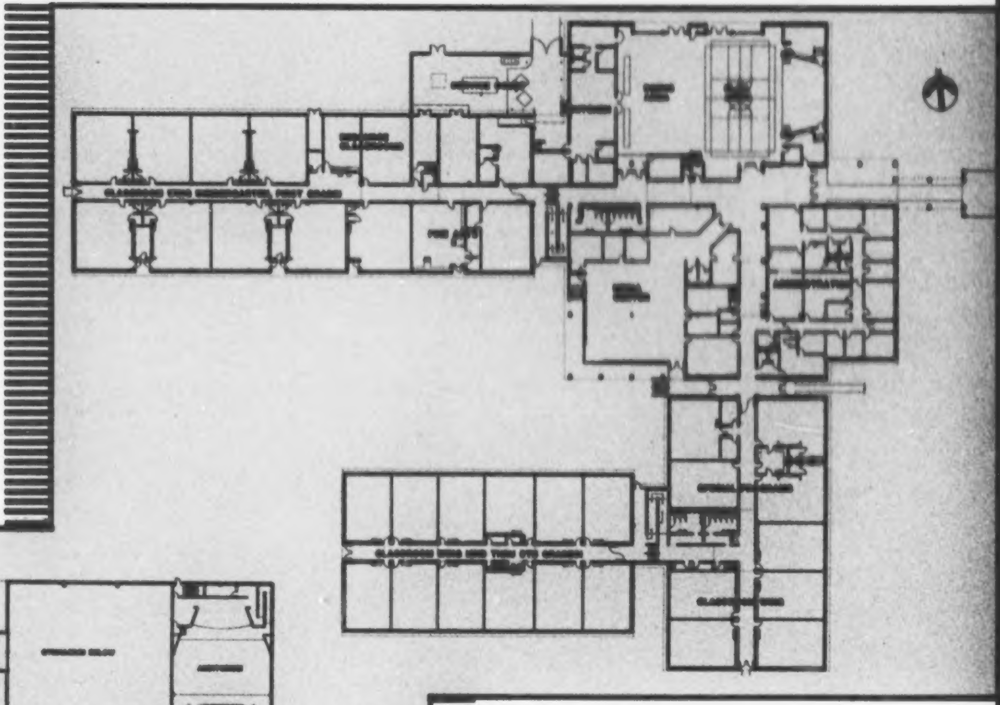


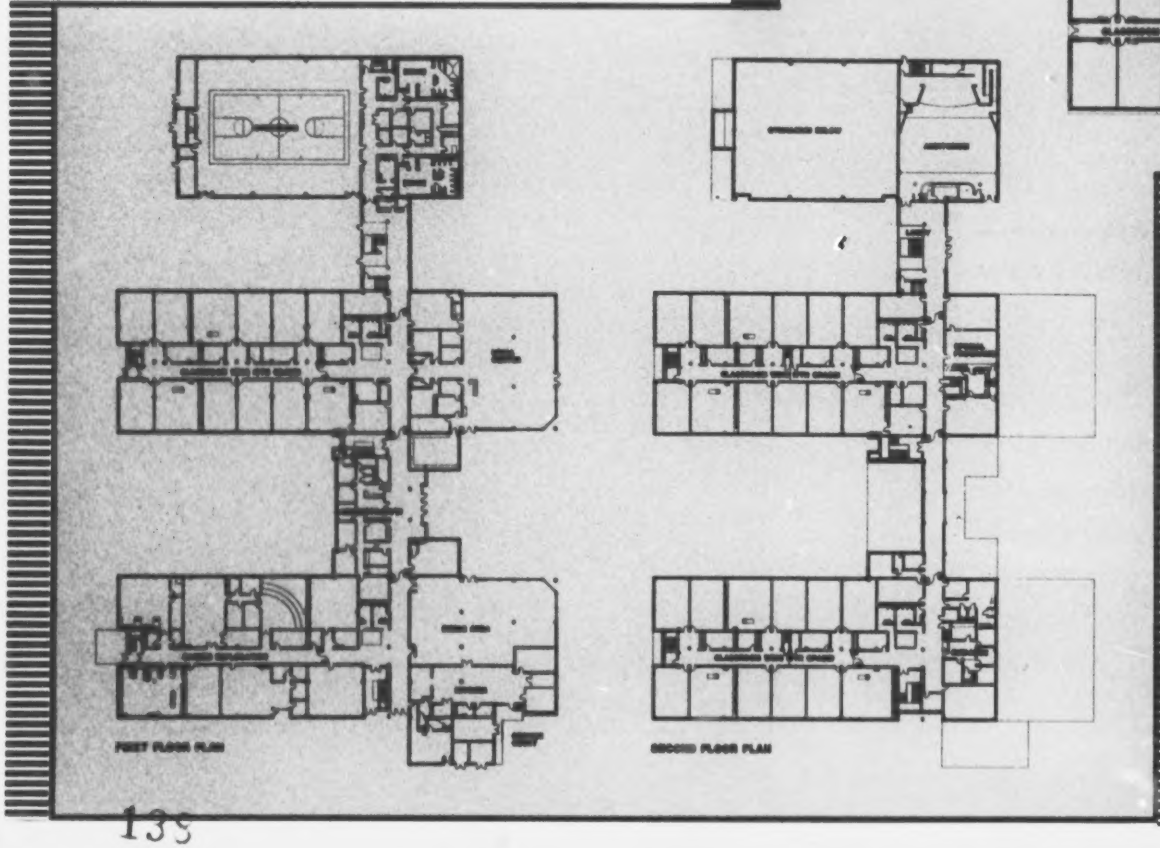


Wake Forest - Rolesville Middle

Administrative Unit	Wake County
Grade Organization	6-8
Approximate Capacity	1,000
Opening Date	August 1989
Architects	Boney Architects, Inc.
Landscape Architect	LandDesign Services
Structural Engineers	McKim & Creed
Mechanical Engineers	McKim & Creed
Electrical Engineers	Reece Noland & McElrath
Square Footage	135,000
Total Cost	$8,612,761
Building Cost Per Square Foot	$63.79

West Lake Elementary · West Lake Middle





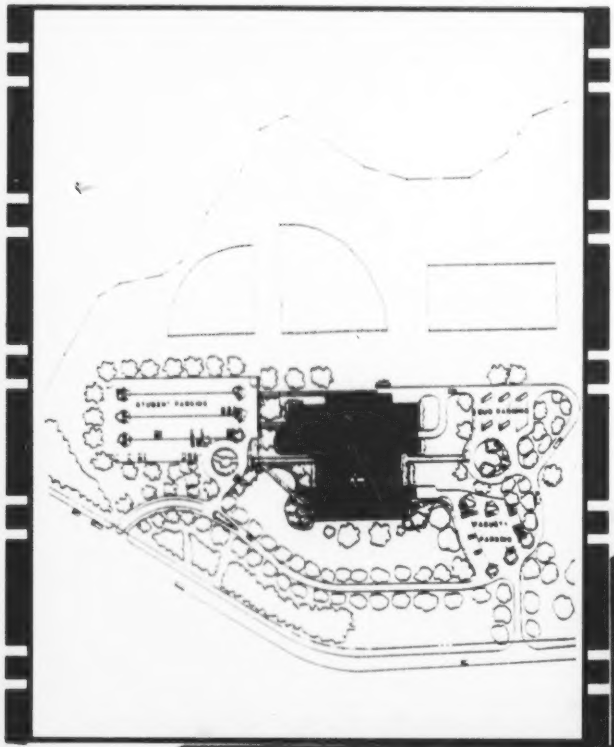
- ☗ Elementary
- ◖ Middle

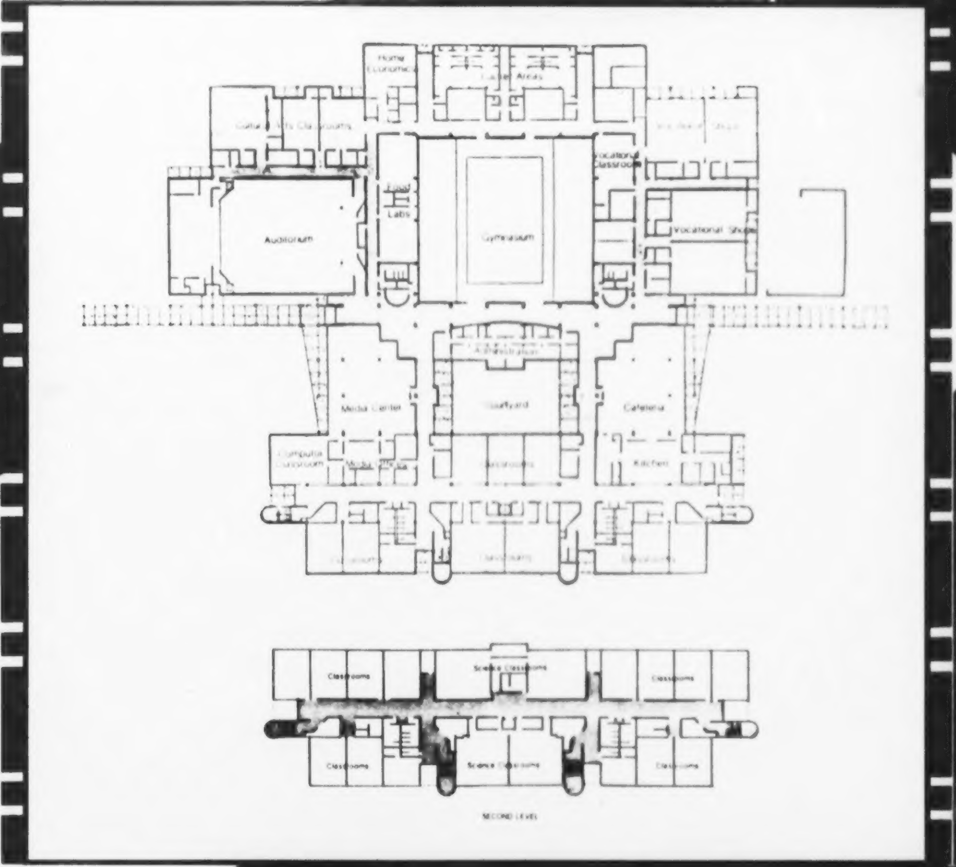
West Lake Elementary · West Lake Middle

Administrative Unit	Wake County
Grade Organization	K-5 and 6-8
Approximate Capacity	Elem 600, Middle 1,000
Opening Date	Elem Fall 1991, Middle Fall 1992
Architects	Boney Architects, Inc.
Landscape Architect	Coulter Associates
Structural Engineers	McKim & Creed
Mechanical Engineers	Cheatham & Associates
Electrical Engineers	Reece, Noland & McElrath
Square Footage	Elem 70,000, Middle 130,538
Total Cost	Elem $4,900,000, Middle $8,000,000
Building Cost Per Square Foot	Elem $70.00
	Middle $61.28

(Elementary School Cost reflects site work for Middle School)

Northside High





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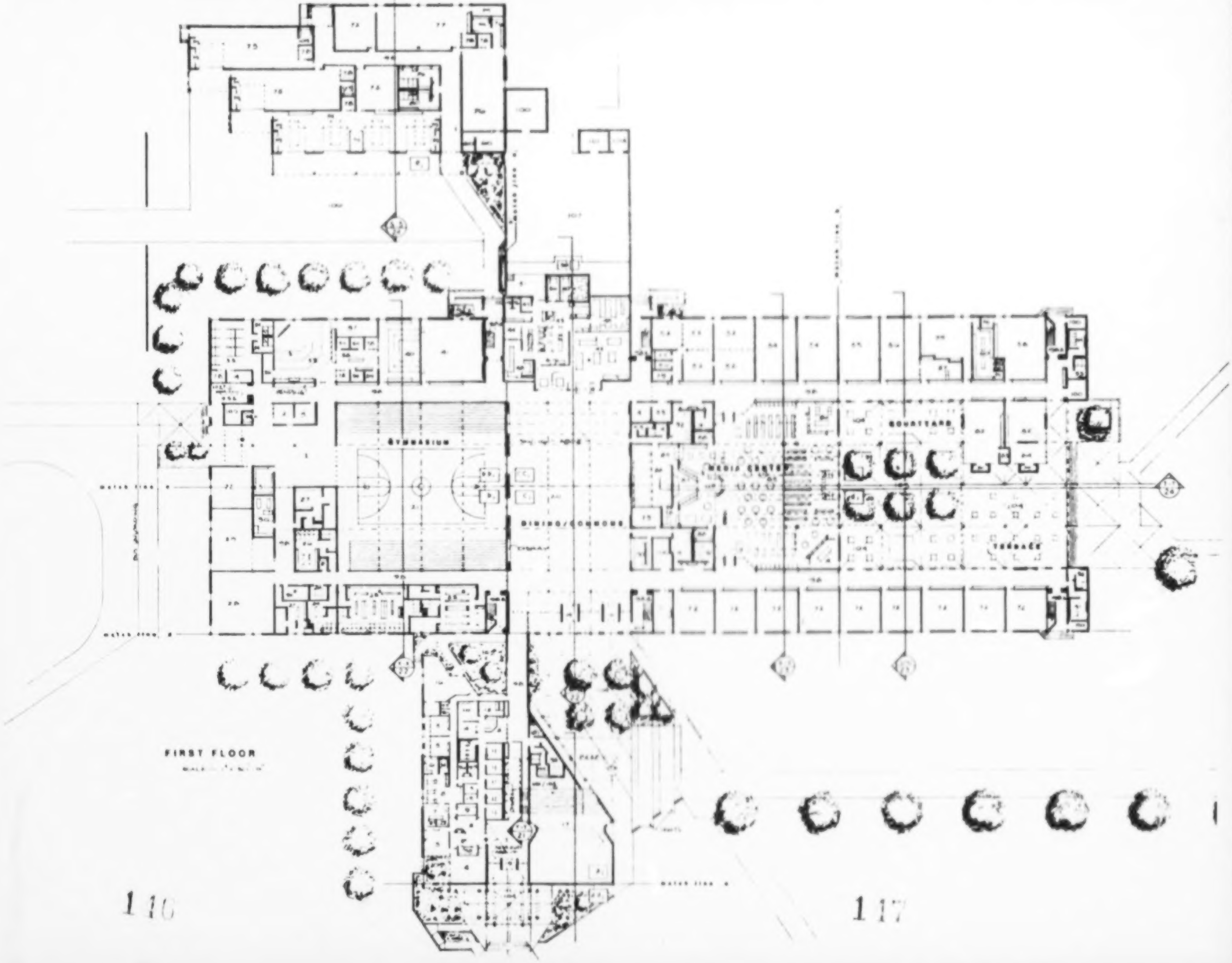
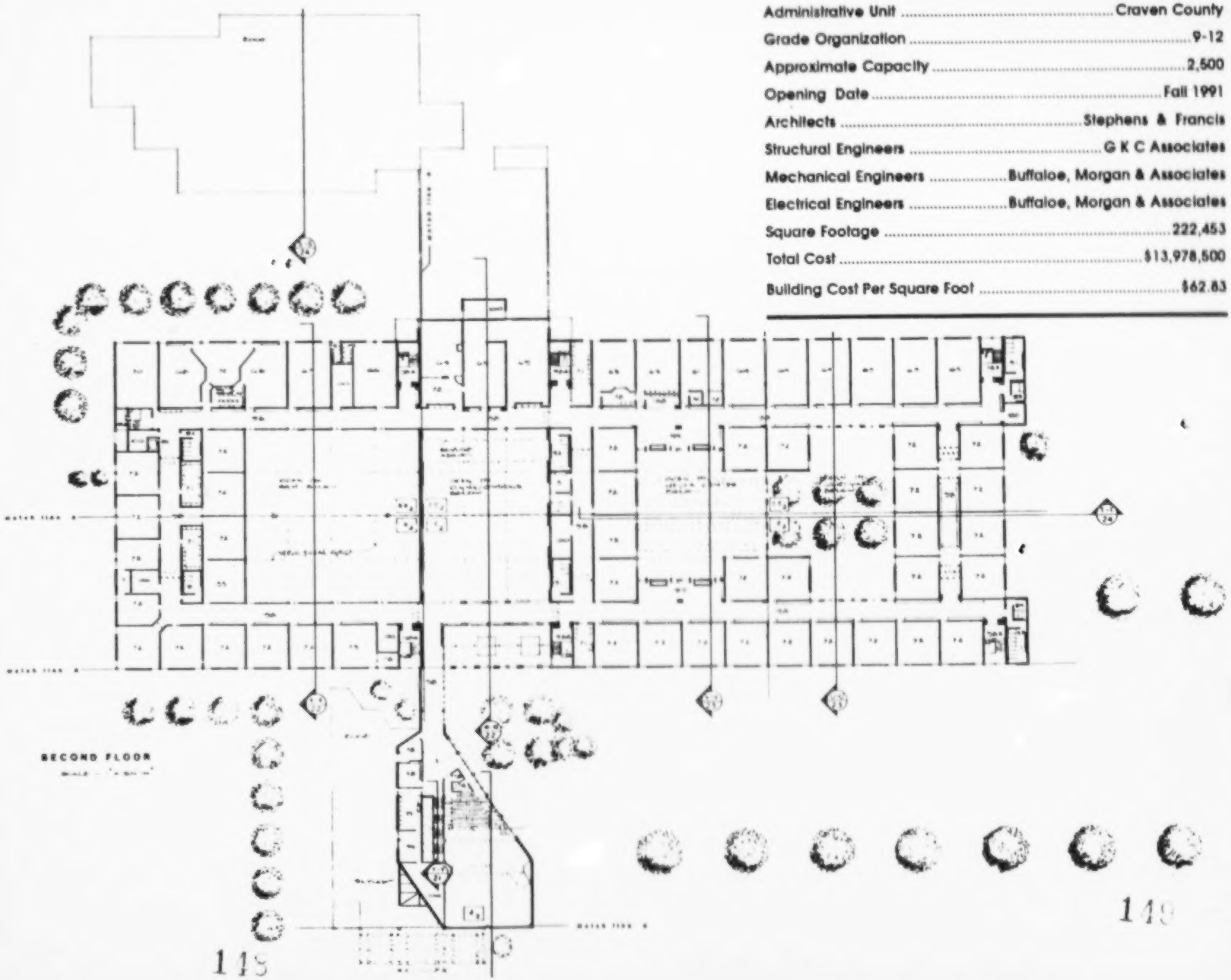
Northside High

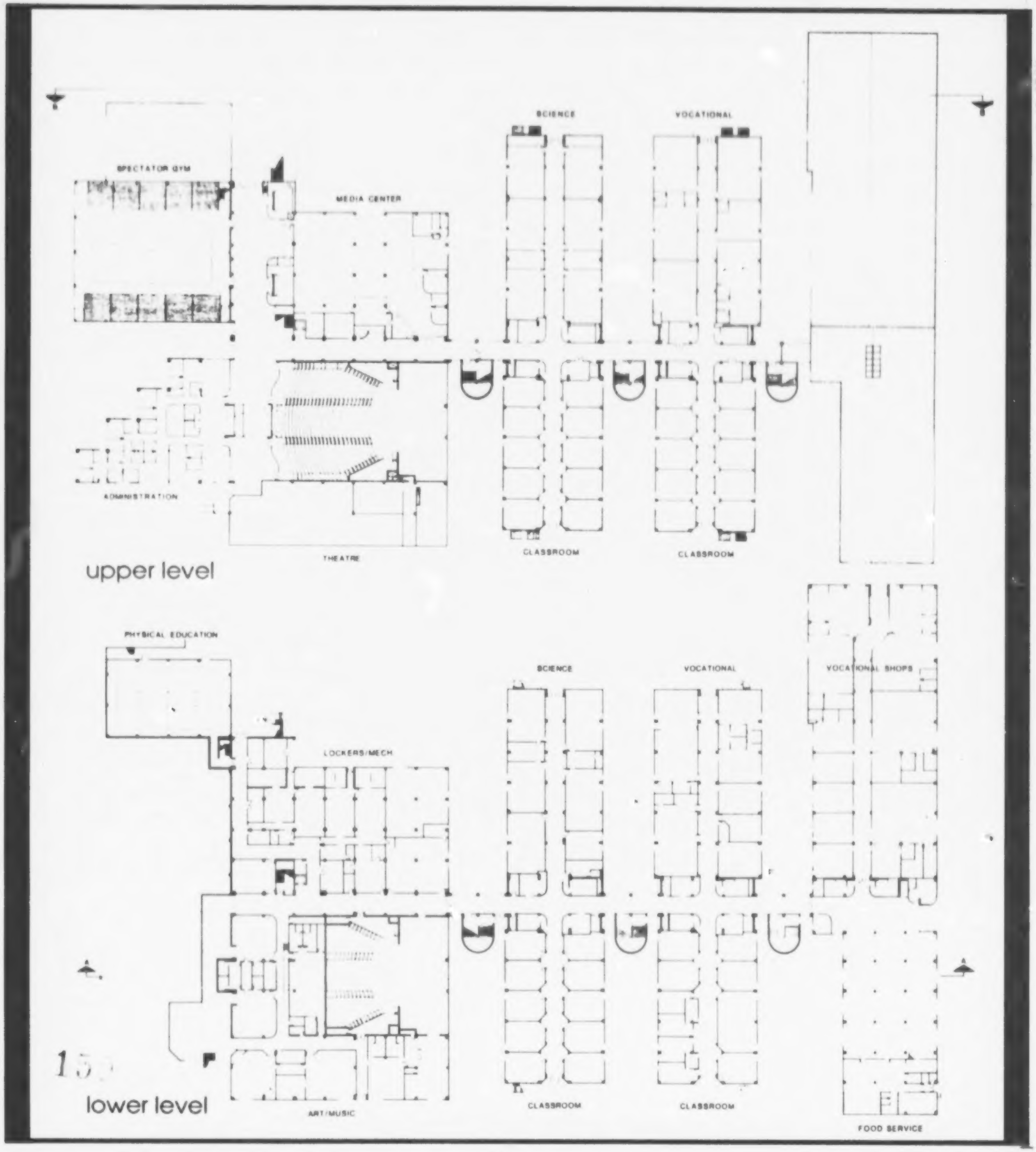
Administrative Unit	Beaufort County
Grade Organization	9-12
Approximate Capacity	750
Opening Date	August 1989
Architects	Boney Architects, Inc.
Landscape Architect	Capps & Associates
Structural Engineers	Henry Von Oeson & Associates
Mechanical Engineers	McKim & Creed
Electrical Engineers	William B. Leland
Square Footage	128,000
Total Cost	$8,136,004
Building Cost Per Square Foot	$63.56

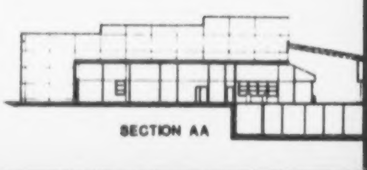

GYMNASIUM
DINING/COMMONS
MEDIA CENTER
COURTYARD
TERRACE
FIRST FLOOR
116
117

New Bern High

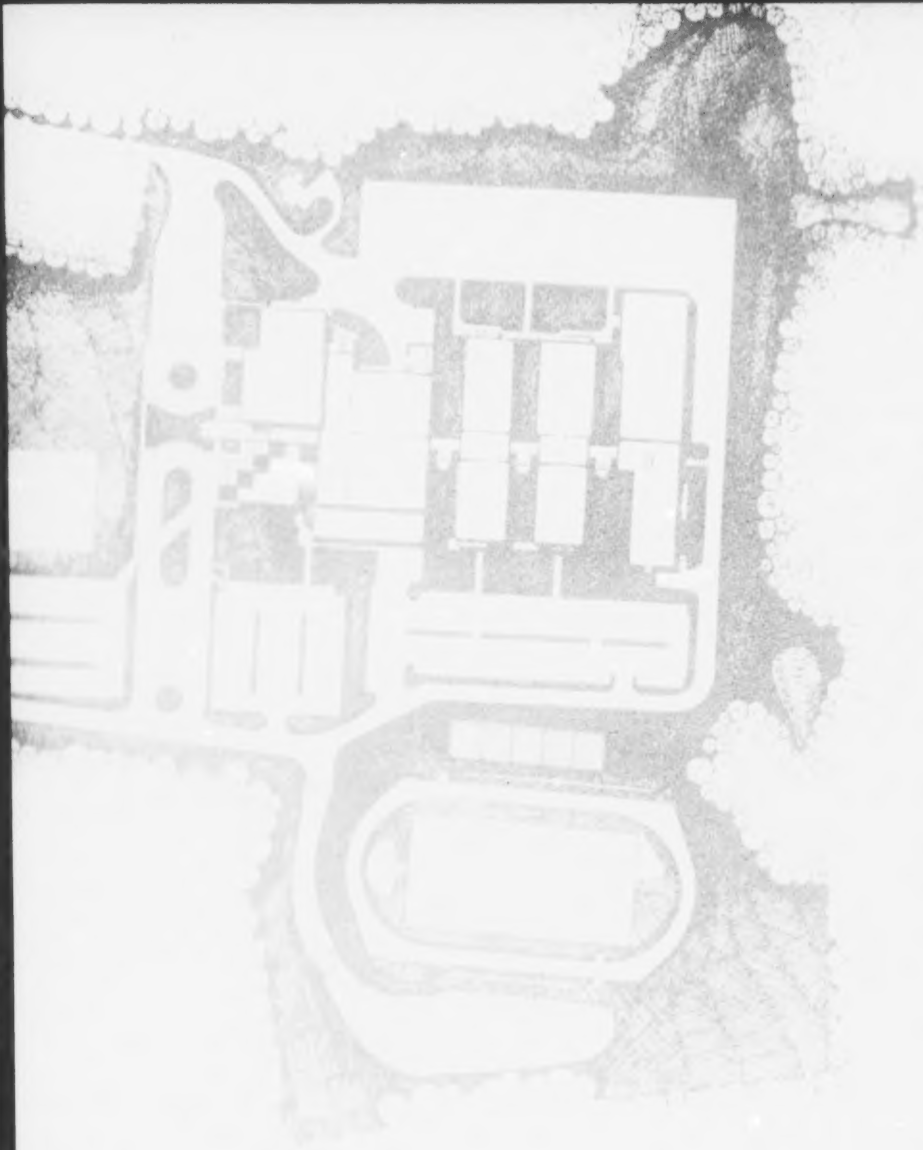
Administrative Unit	Craven County
Grade Organization	9-12
Approximate Capacity	2,500
Opening Date	Fall 1991
Architects	Stephens & Francis
Structural Engineers	G K C Associates
Mechanical Engineers	Buffaloe, Morgan & Associates
Electrical Engineers	Buffaloe, Morgan & Associates
Square Footage	222,453
Total Cost	$13,978,500
Building Cost Per Square Foot	$62.83



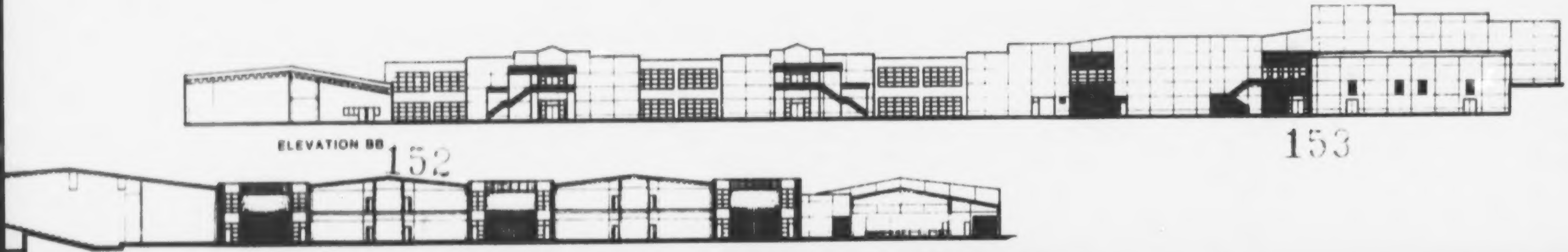

SPECTATOR GYM
MEDIA CENTER
SCIENCE
VOCATIONAL
ADMINISTRATION
THEATRE
CLASSROOM
CLASSROOM
upper level
PHYSICAL EDUCATION
SCIENCE
VOCATIONAL
VOCATIONAL SHOPS
LOCKERS/MECH
ART/MUSIC
CLASSROOM
CLASSROOM
FOOD SERVICE
lower level


SECTION AA

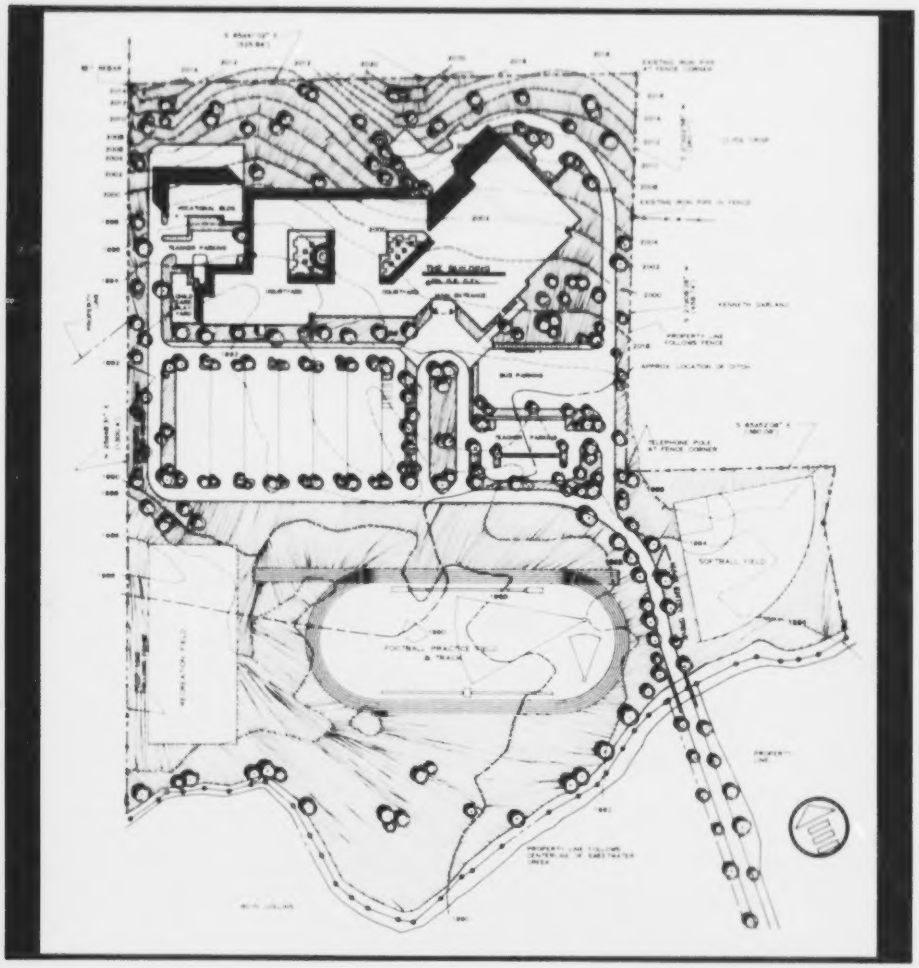
Riverside High



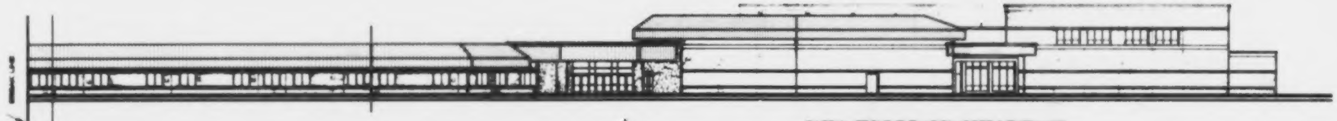
Administrative Unit	Durham County
Grade Organization	9-12
Approximate Capacity	1,560
Opening Date	Fall 1991
Architects	DePasquale Thompson Wilson
Landscape Architect	Coulter Associates
Structural Engineers	G K C Associates
Mechanical and Electrical Engineers	Knott & Roberts
Square Footage	260,000
Total Cost	$17,000,000
Building Cost Per Square Foot	$65.38



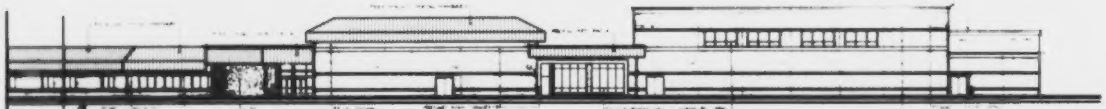
Graham County High



Administrative Unit	**Graham County**
Grade Organization	**7-12**
Approximate Capacity	**600**
Opening Date	**Fall 1992**
Architects	**Foy & Lee Associates**
Landscape Architect	**John Broadbrooks**
Structural Engineers	**Sutton-Kennerly & Associates**
Mechanical Engineers	**Kelso Regen Associates**
Electrical Engineers	**Fred Vreeland**
Square Footage	**127,000**
Total Cost	**$8,000,000**
Building Cost Per Square Foot	**$62.99**

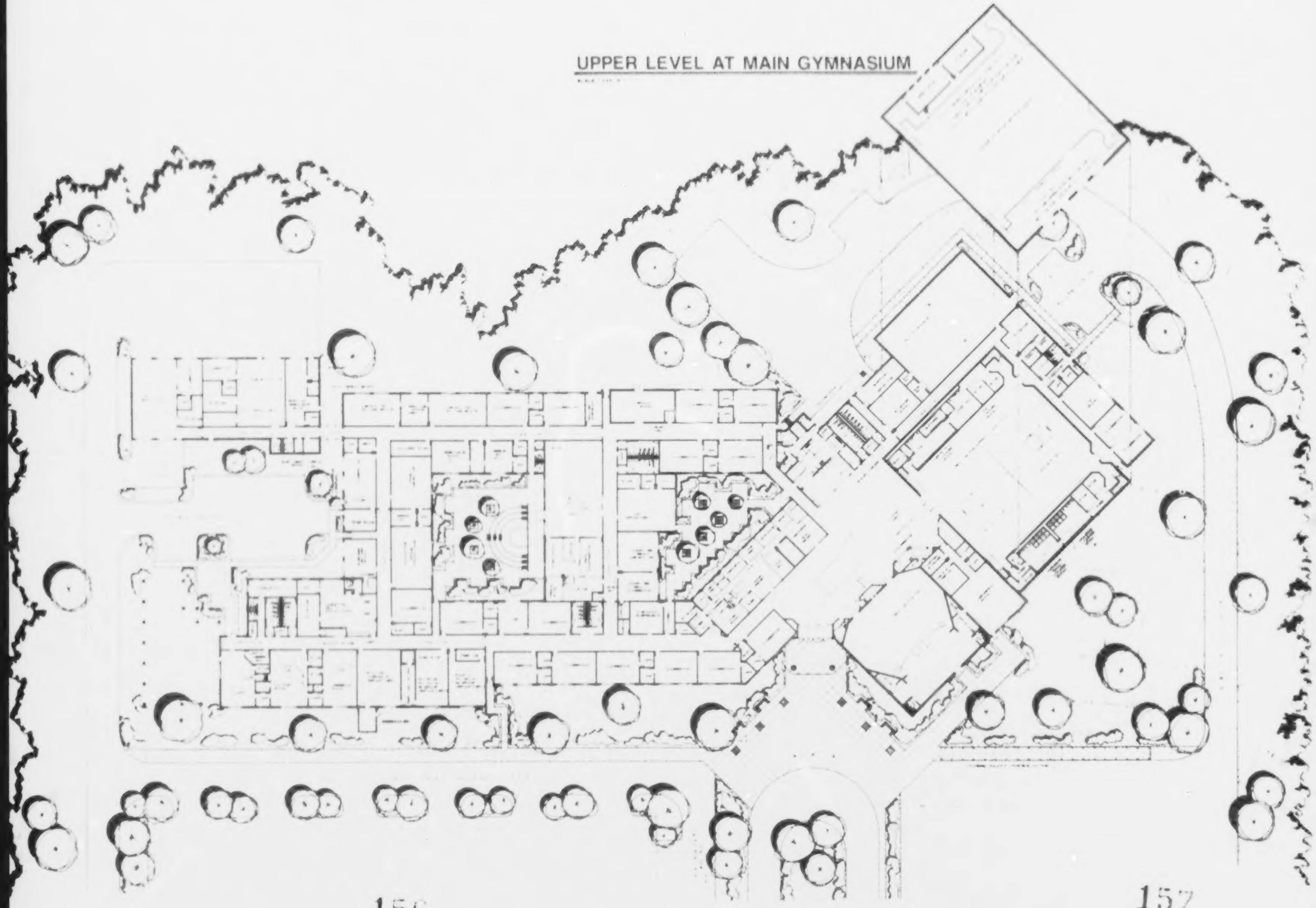


PARTIAL FRONT ELEVATION (CORE & ENTRANCE)



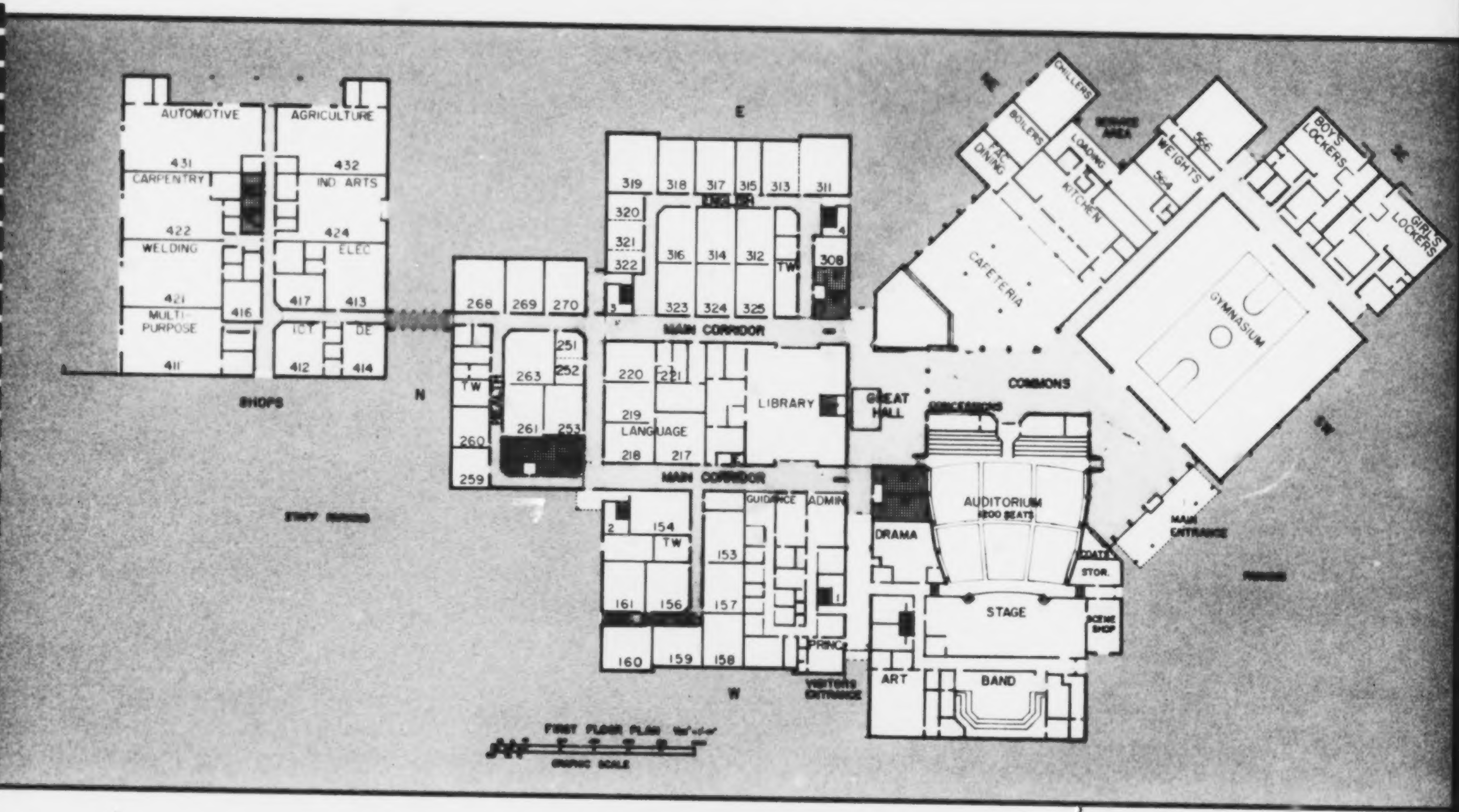
PARTIAL FRONT ELEVATION (CORE & ENTRANCE)

Graham County High

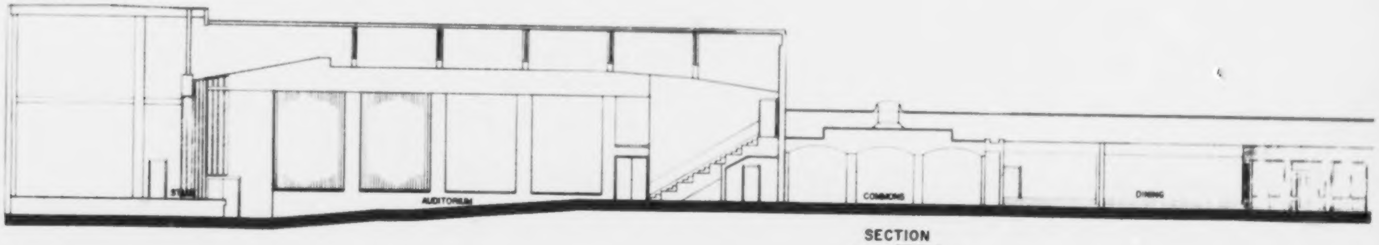


156

157

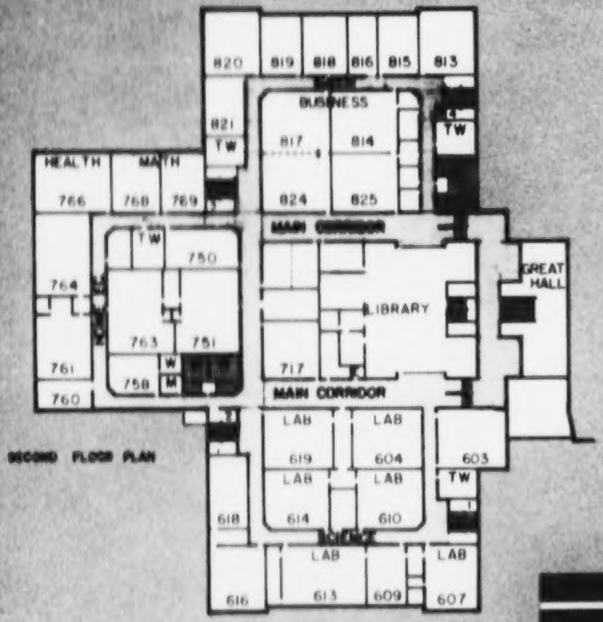


FIRST FLOOR PLAN



SECTION

Triton High



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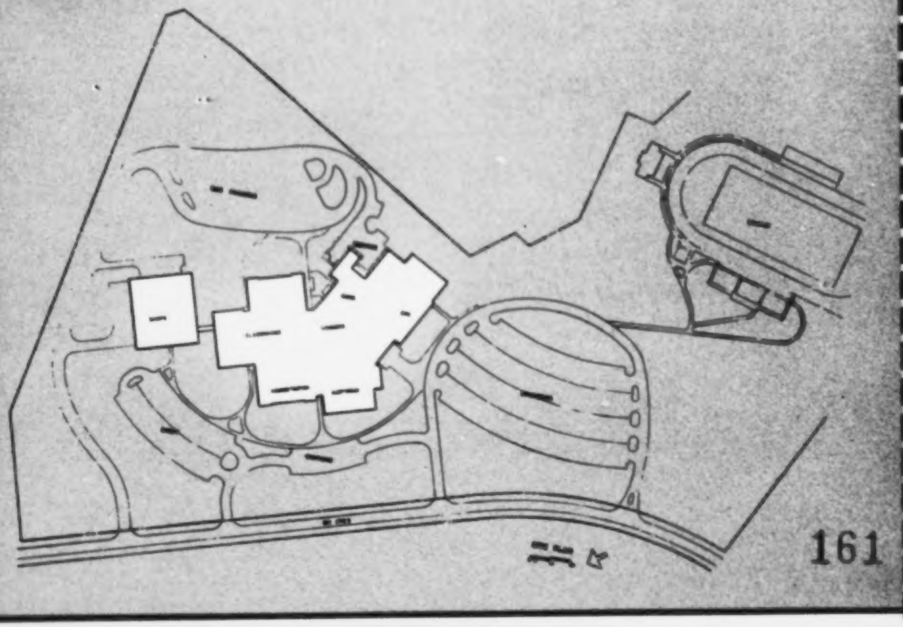
Administrative Unit	Hamett County
Grade Organization	9-12
Approximate Capacity	1,900
Opening Date	Fall 1985
Architects	MacMillan & MacMillan
Landscape Architect	McNeely Associates
Structural Engineers	Lasater-Hopkins
Mechanical Engineers	Progressive Design Collaborative
Electrical Engineers	Progressive Design Collaborative
Square Footage	238,000
Total Cost	$10,068,723
Building Cost Per Square Foot	$42.30



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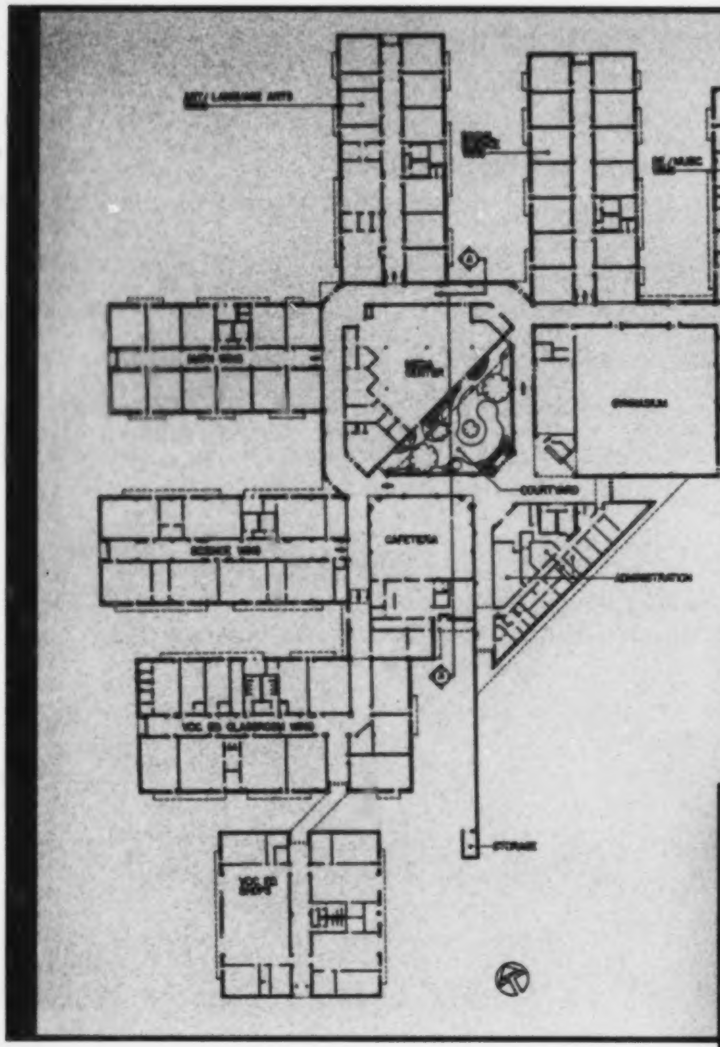
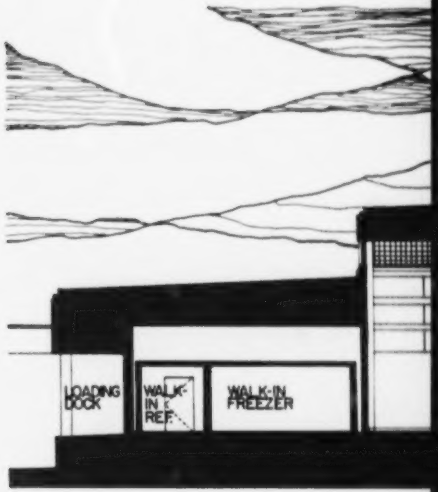
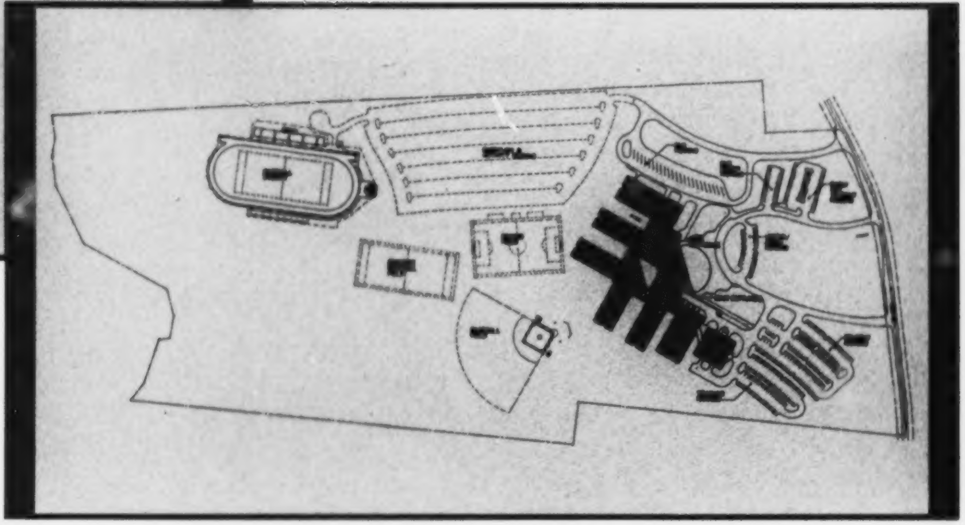

ART / LANGUAGE ARTS
MATH WING
GYMNASIUM
COURTYARD
CAFETERIA
SCIENCE WING
ADMINISTRATION
VOC ED CLASSROOM WING
STORAGE
VOC ED SHOPS

162


LOADING DOCK
WALK-IN REF.
WALK-IN FREEZER



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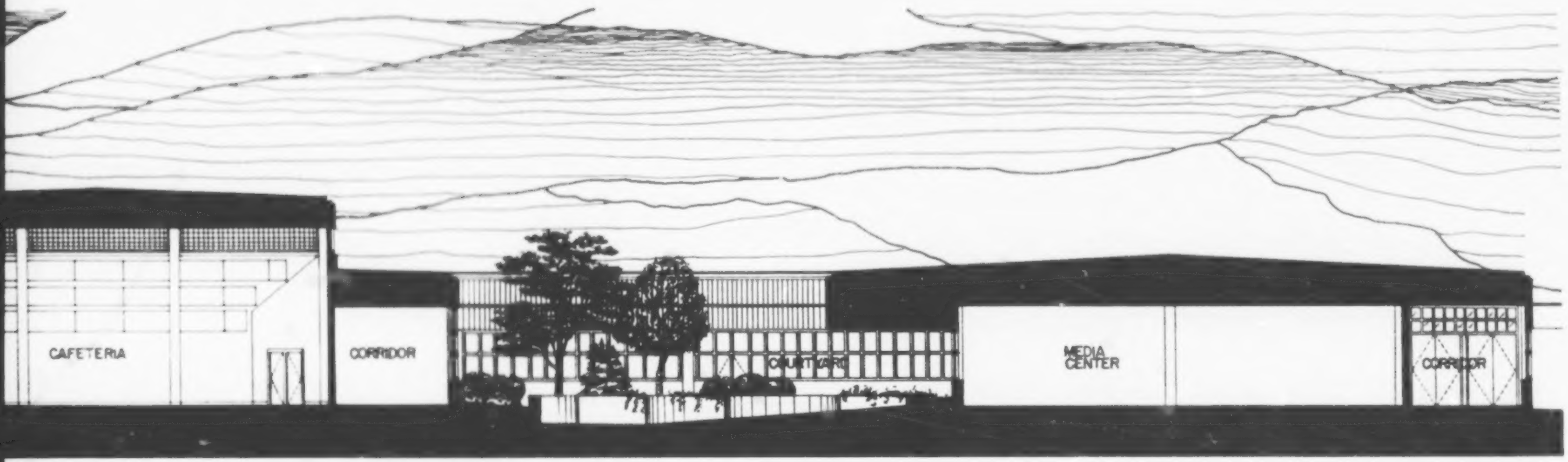
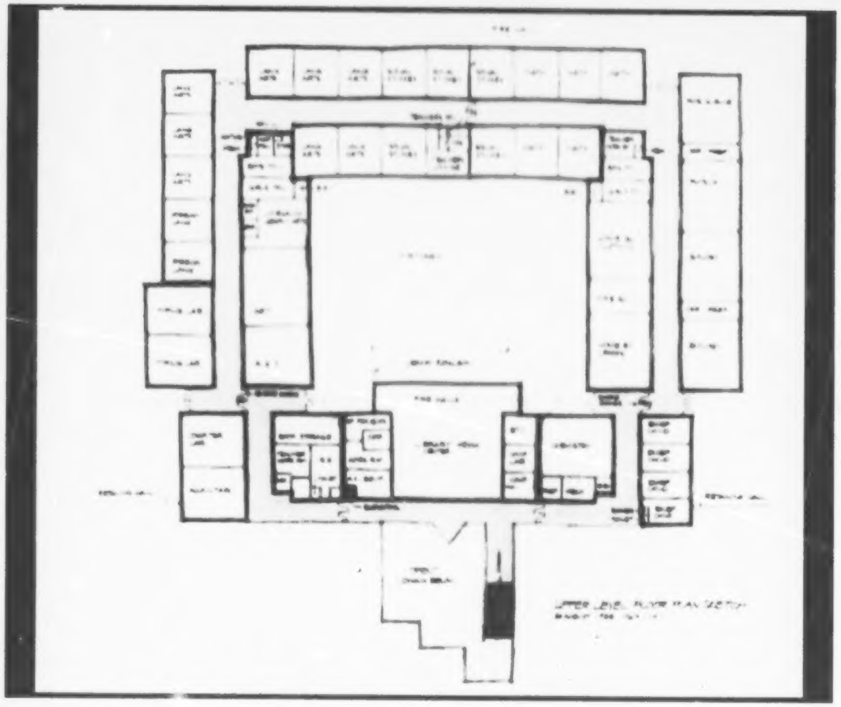
South Vance High



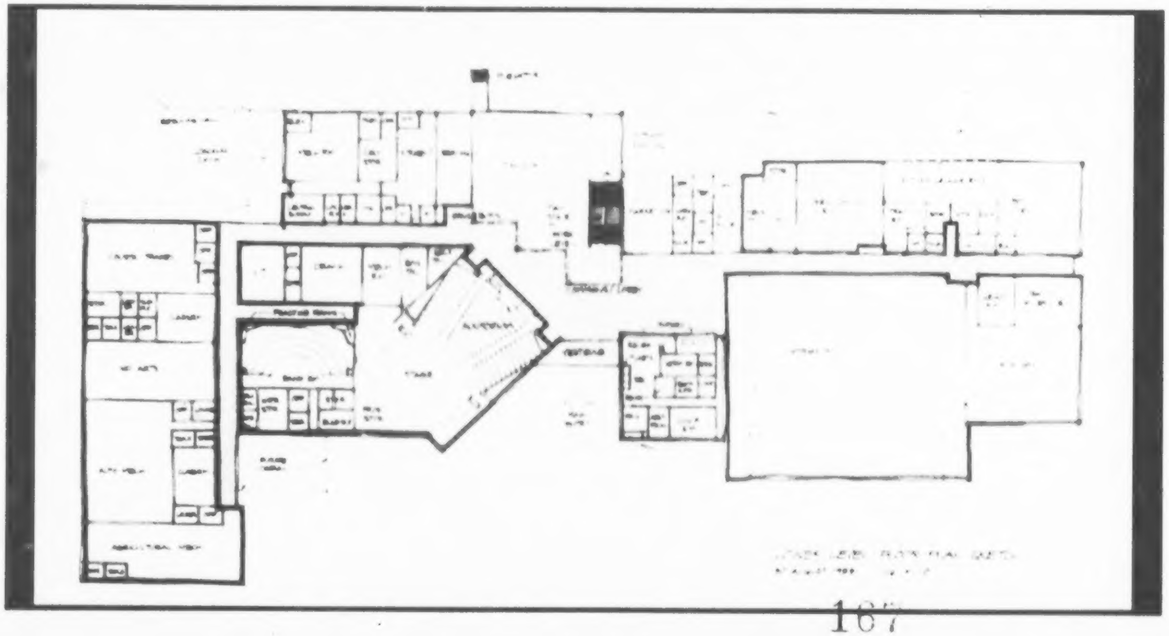
Ⓐ BUILDING SECTION

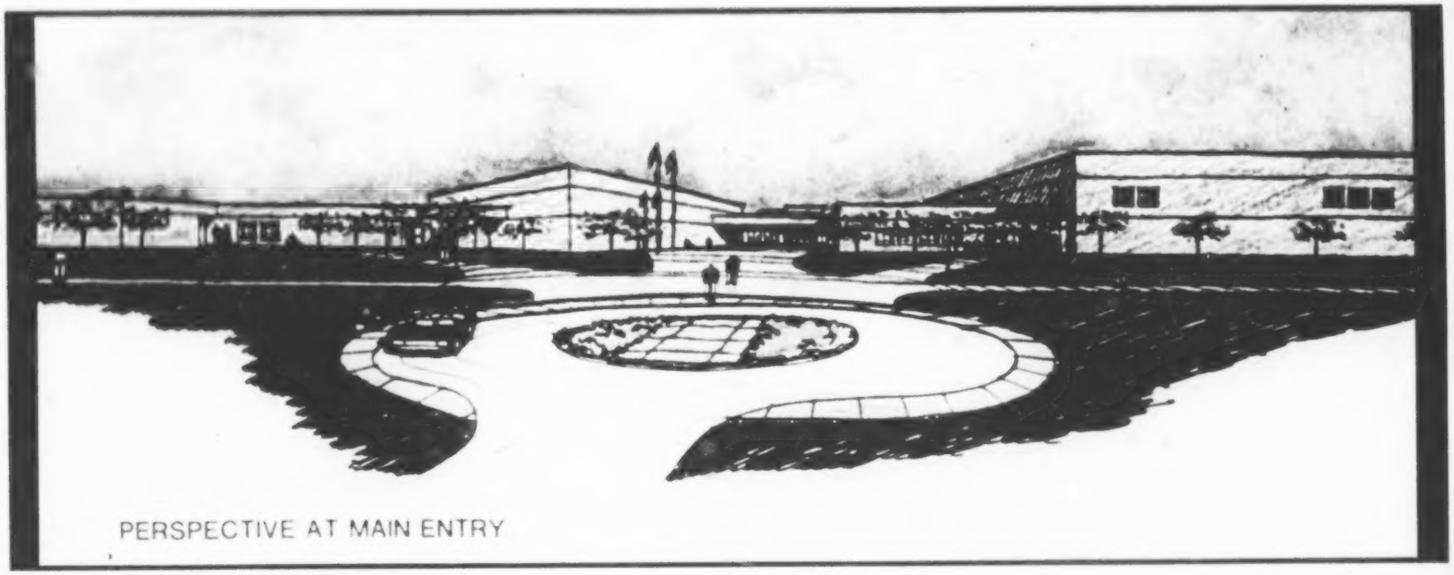
Administrative Unit	Vance County
Grade Organization	9-12
Approximate Capacity	800
Opening Date	Fall 1990
Architects	The Smith Sinnett Associates
Landscape Architect	McNeely Associates
Structural Engineers	J.E. Greiner Company
Mechanical Engineers	Shelton Y. Adcock
Electrical Engineers	Shelton Y. Adcock
Square Footage	170,000
Total Cost	$11,007,500
Building Cost Per Square Foot	$64.75

Dalton L. McMichael High

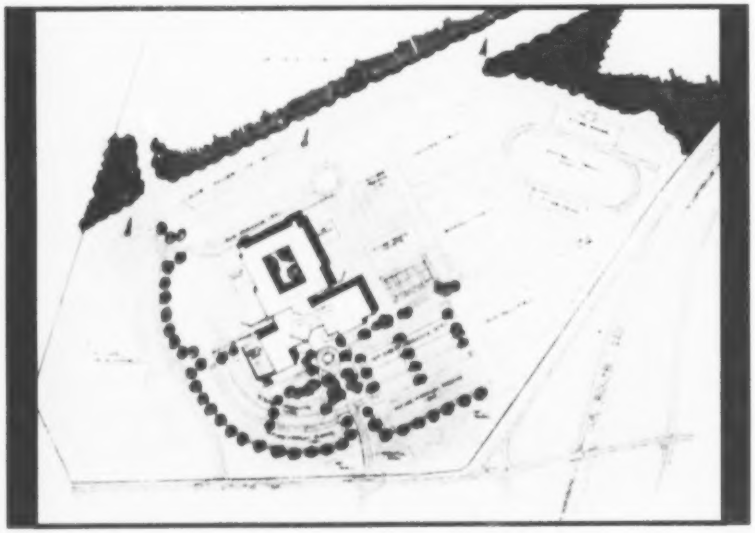


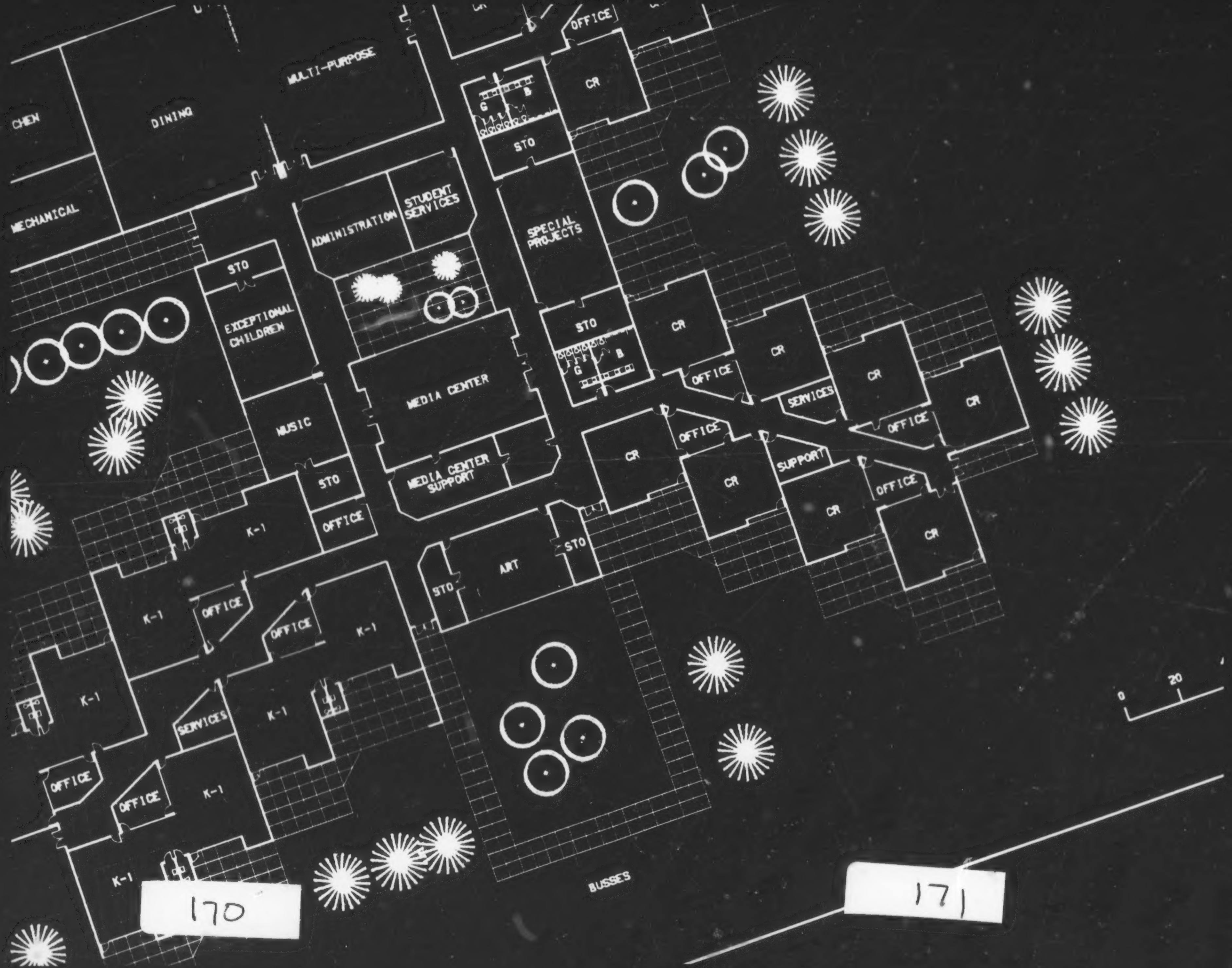
Administrative Unit	Western Rockingham City
Grade Organization	9-12
Approximate Capacity	900
Opening Date	1991
Architects	Smithey & Boynton
Landscape Architect	In House
Structural Engineers	Smithey & Boynton
Mechanical Engineers	Smithey & Boynton
Electrical Engineers	Smithey & Boynton
Square Footage	165,000
Total Cost	$11,958,930
Building Cost Per Square Foot	$72.47





PERSPECTIVE AT MAIN ENTRY




CHEN
DINING
MULTI-PURPOSE
MECHANICAL
OFFICE
CR
G
B
STO
ADMINISTRATION
STUDENT SERVICES
SPECIAL PROJECTS
STO
EXCEPTIONAL CHILDREN
STO
G
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CR
CR
CR
CR
MEDIA CENTER
OFFICE
SERVICES
OFFICE
MUSIC
OFFICE
CR
SUPPORT
CR
OFFICE
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CR
MEDIA CENTER SUPPORT
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ART
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K-1
OFFICE
OFFICE
K-1
K-1
SERVICES
K-1
OFFICE
OFFICE
K-1
K-1
BUSSES
0
20

The following plan diagrams represent some School Planning ideas which have been suggested by actual school planning conditions frequently encountered by architects and school administrators. The diagrams are attempts to standardize a basic school plan design element so that it can be repeated or combined with similar units to produce parts of plans or complete school building plans. Close examination of school building design programs reveals that schools are really combinations of somewhat standard units of area and multiples or subdivisions of these units. Conventional school plan shapes are the result of building construction imperatives and the common idea of what constitutes a school plan. Contemporary educational requirements and methodologies suggest that the usual school planning response to these requirements is rarely more valid than the units of area, their multiples and subdivisions indicated in these diagrams. Also, a good case can be made against the traditional rectangular school planning unit and for another unit shape with less rigidity. A combination of school planning units with five walls and five corners can provide a great deal more planning flexibility and order without sacrificing the one teacher/one room concept basic to traditional educational thinking. However, that is a subject for another set of School Planning diagrams.

Prototype computerised plan diagrams prepared by
Sam S. Epperson, Jr., A.I.A.
Alvis O. George, Jr., A.I.A.
for Black & Veatch, Inc., Raleigh and Asheboro, North Carolina

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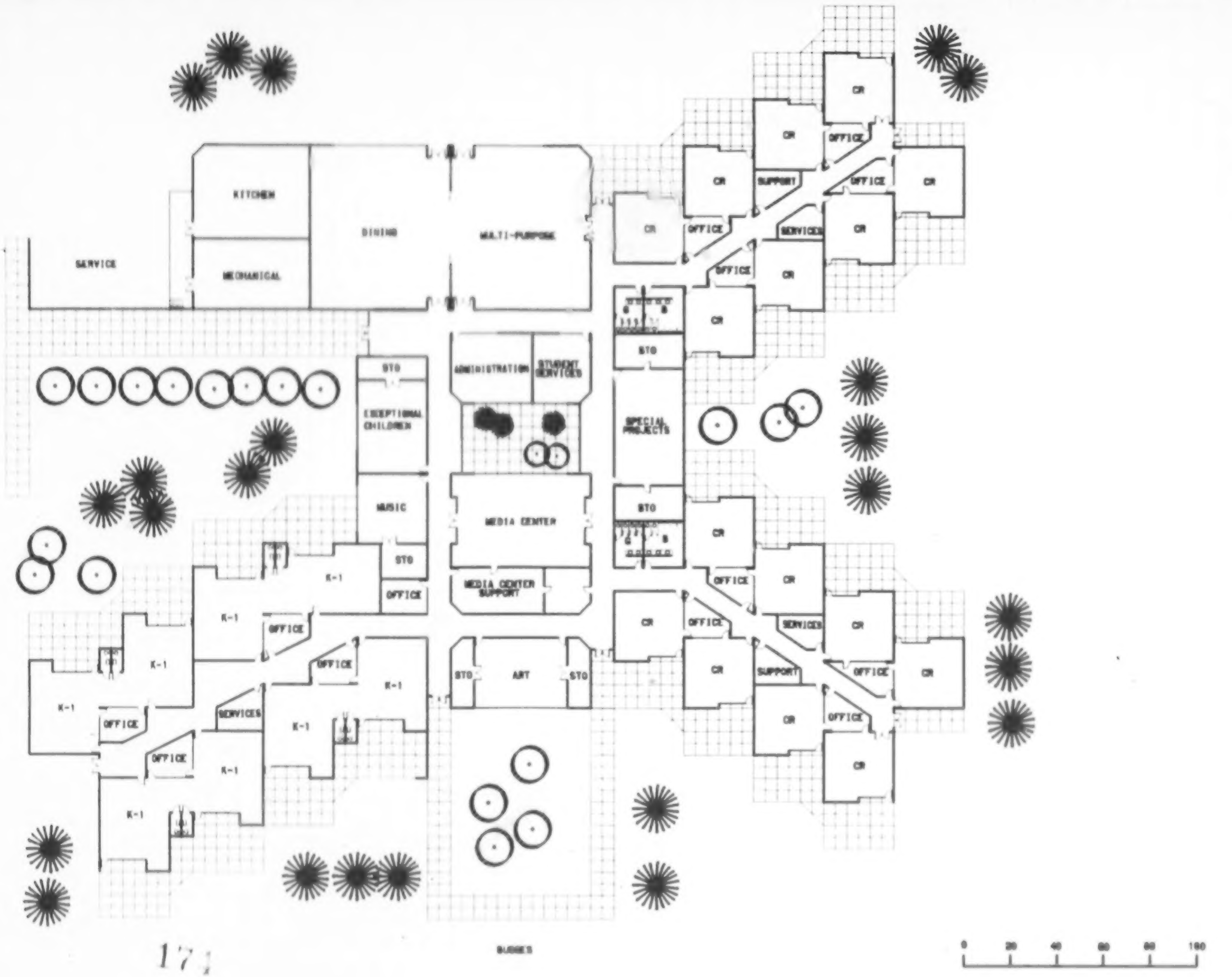
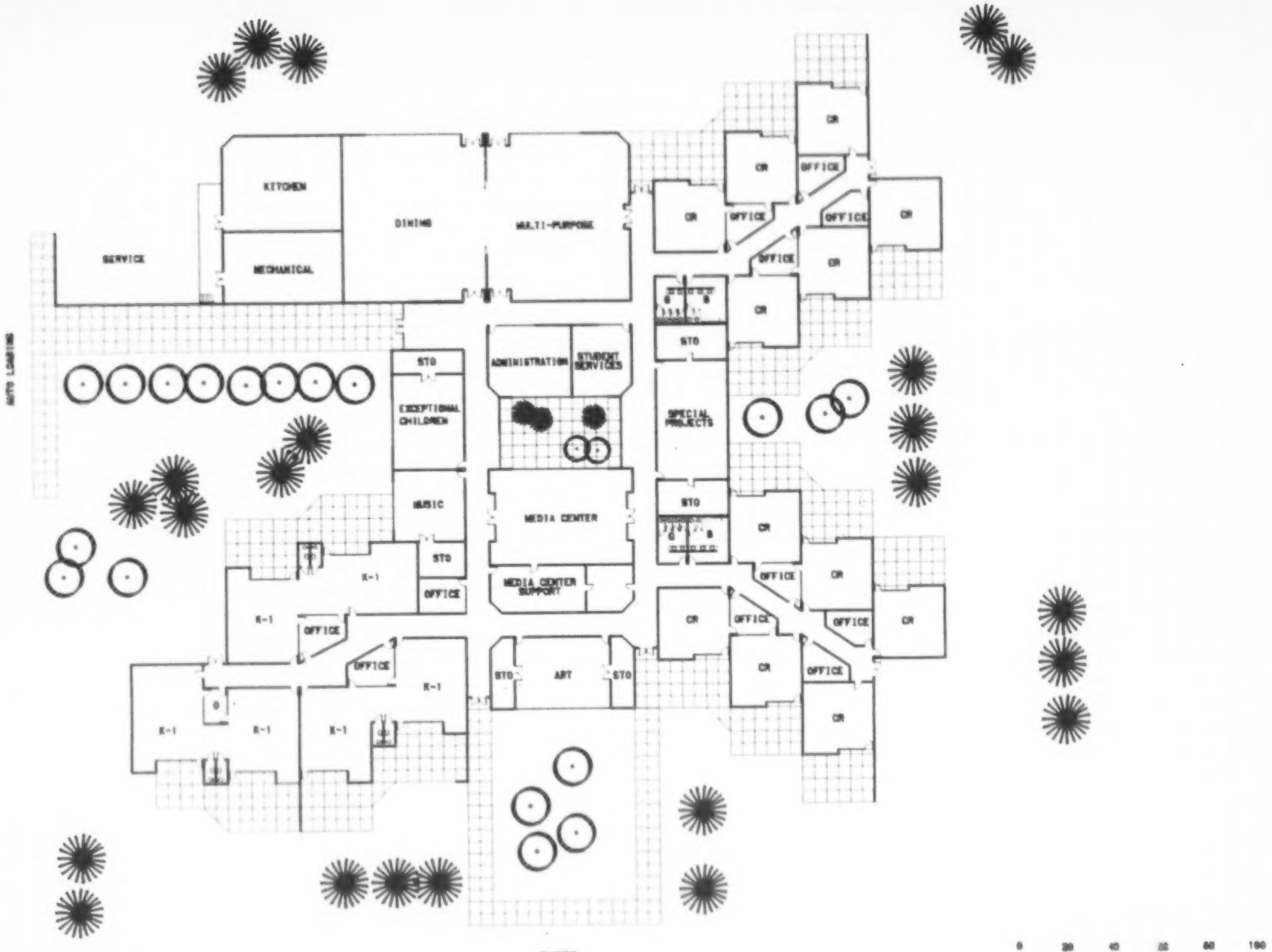
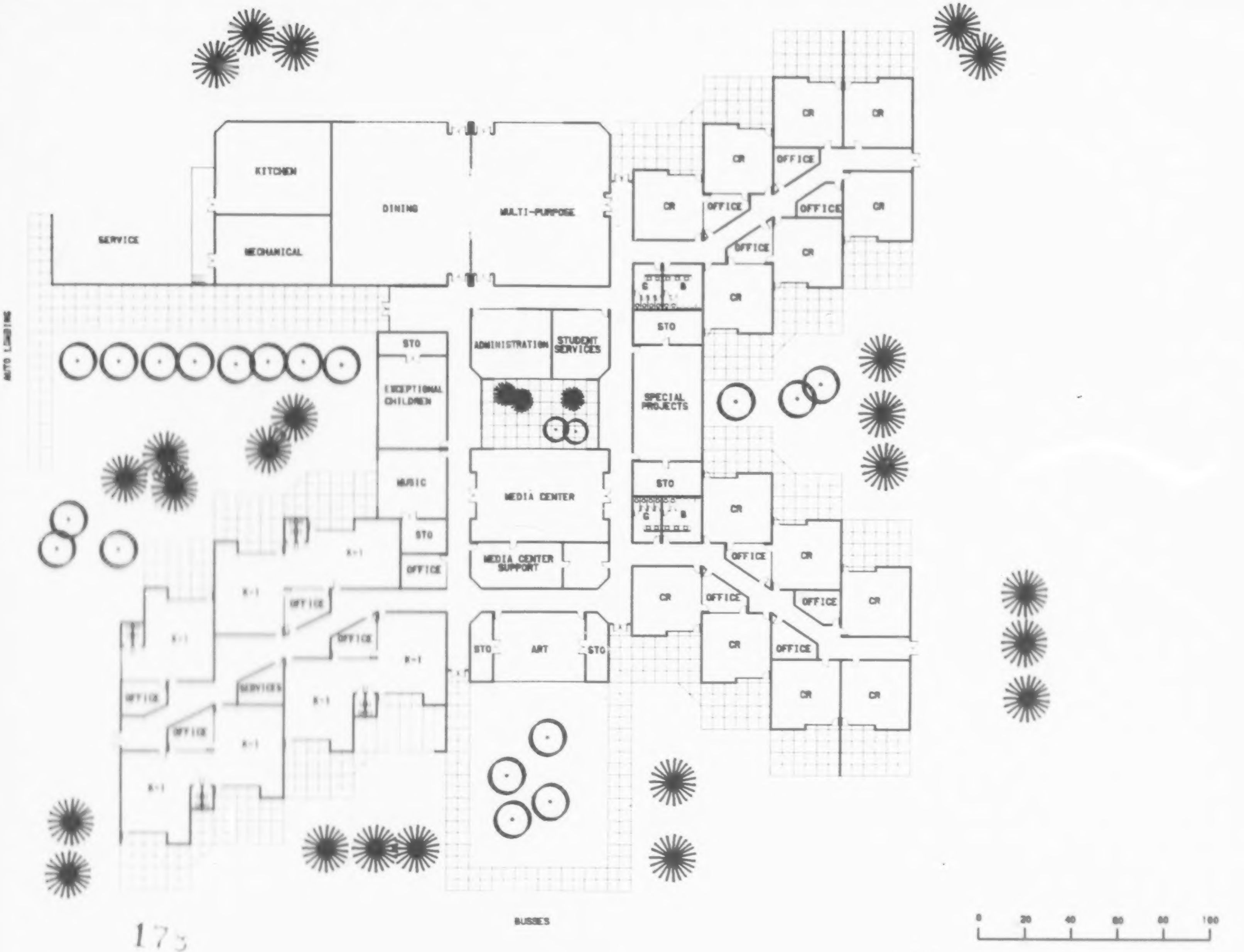
Prototype · Elementary School · A



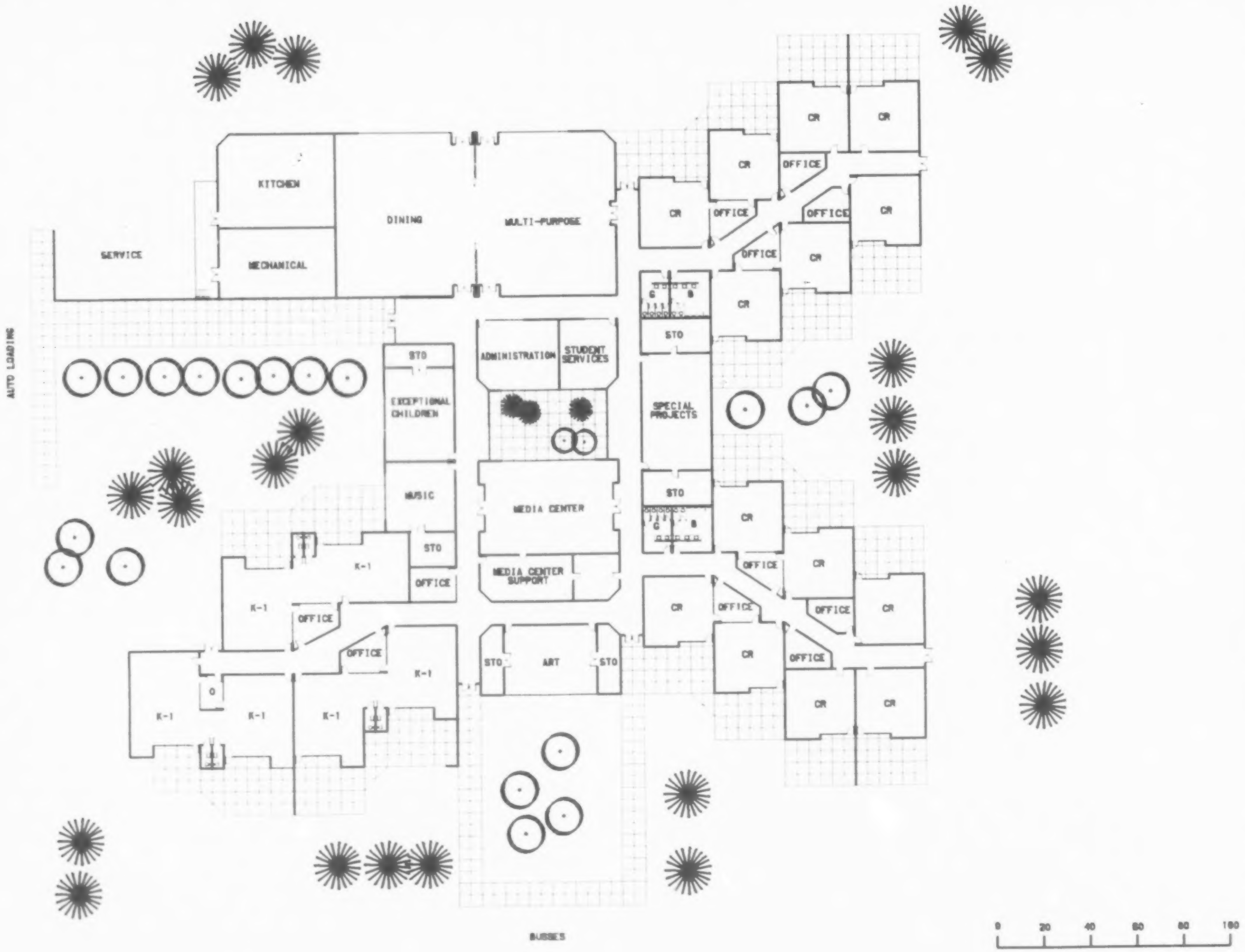
Prototype · Elementary School · B



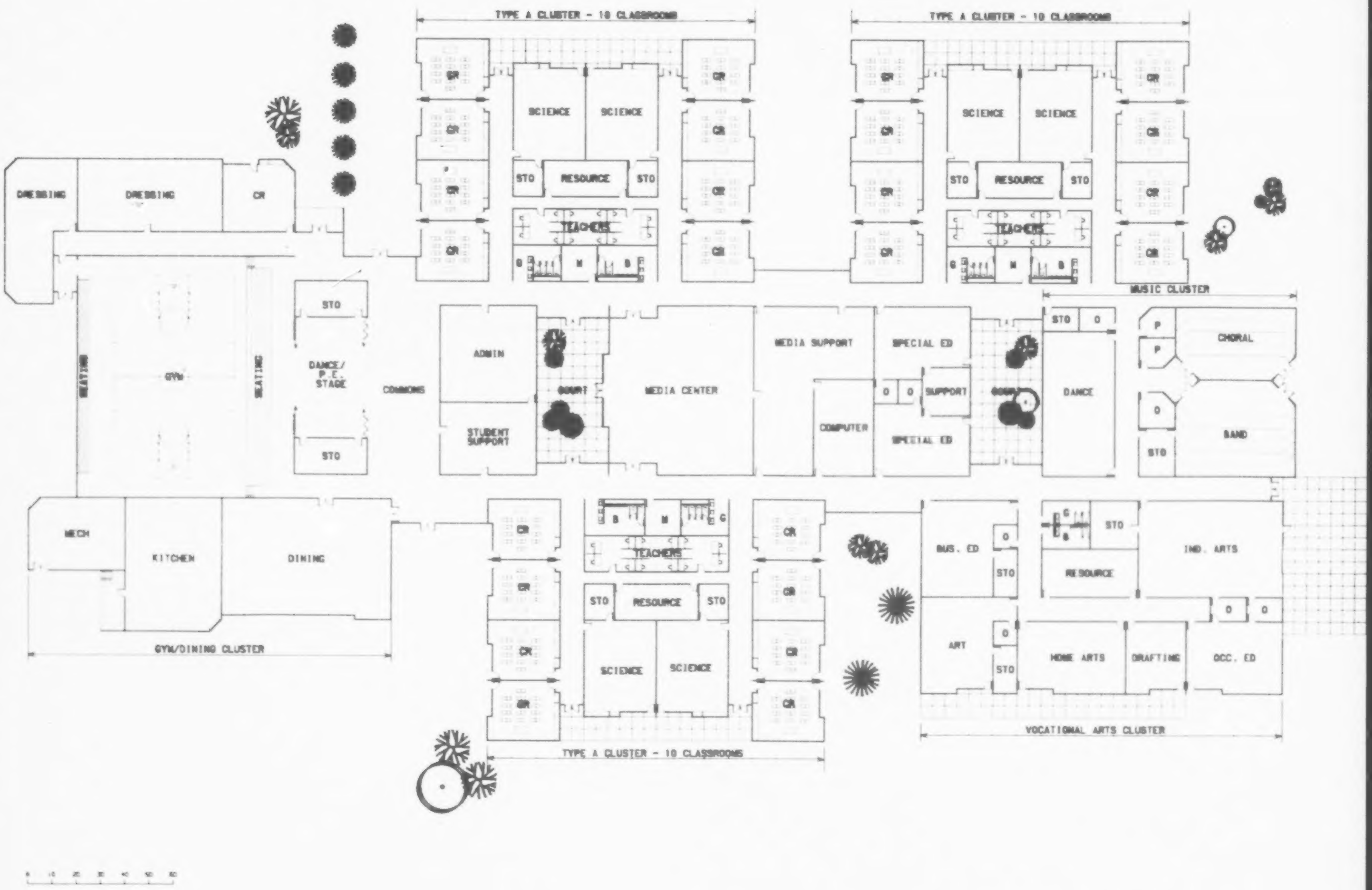
Prototype · Elementary School · C



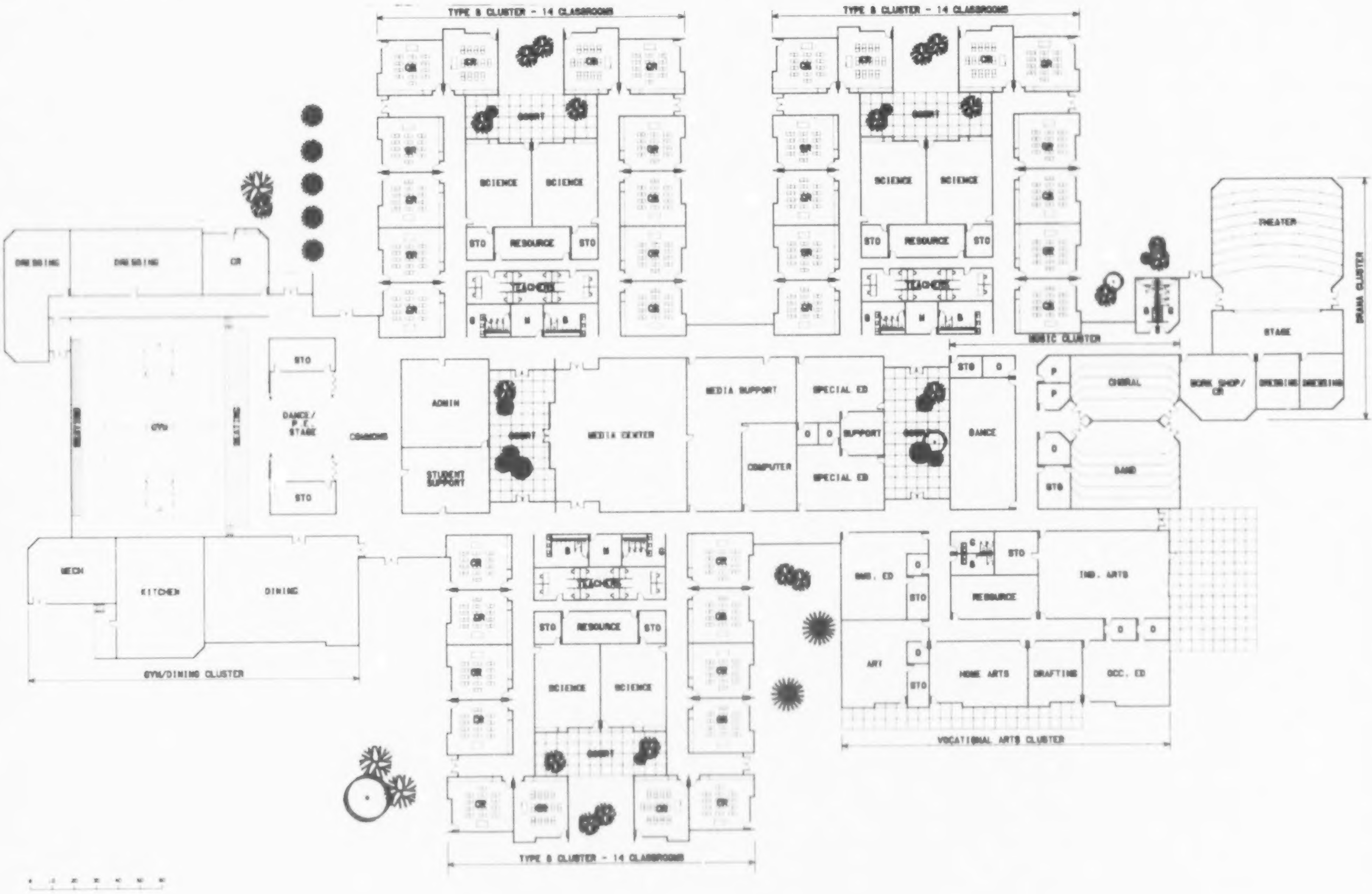
Prototype · Elementary School · D



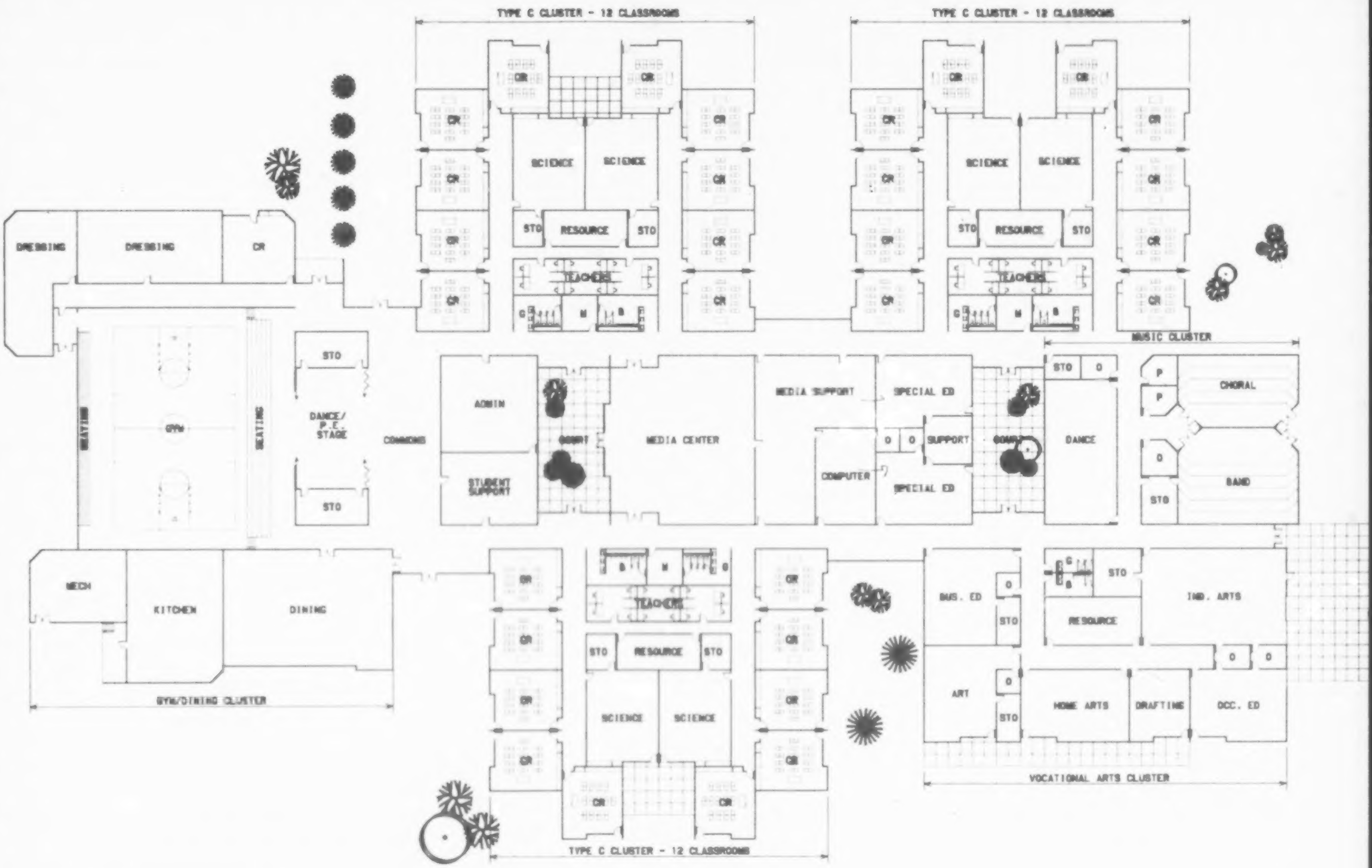
Prototype · Middle School · A



Prototype · Middle School · B



Prototype · Middle School · C



PROTOTYPE MIDDLE SCHOOL C

0 10 20 30 40 50 60

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